

BEACH AND NEARSHORE SURVEY DATA: 1981-1984 CERC FIELD RESEARCH FACILITY

by

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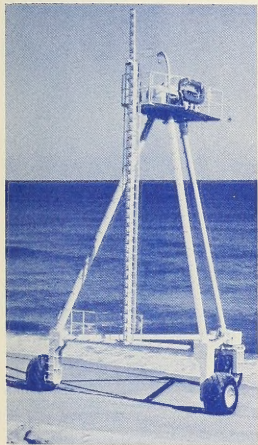
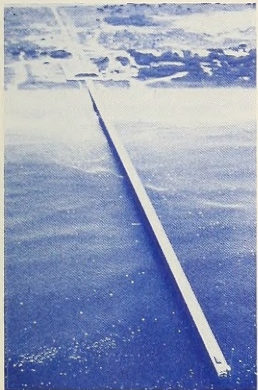
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<p>This report presents 4 years of highly accurate, approximately biweekly surveys of four selected beach profiles collected at the US Army Engineer Waterways Experiment Station, Coastal Engineering Research Center's Field Research Facility (FRF) in Duck, NC. These data are unique because they cover the most active region of the nearshore, from the dune out to a depth where net bottom changes appear to be negligible, and were collected coincident with detailed measurements of waves and water levels.</p> <p>The data were collected between 1981 and 1984 using the FRF's CRAB, a 10-m-tall motorized tripod, which, combined with an electronic "total station" surveying instrument, is capable of accuracies of a few centimetres in both elevation and position.</p> <p style="text-align: right;">(Continued)</p>					
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19. ABSTRACT (Continued).

The report discusses the data-collection methods, the sources of errors and data-editing procedures, and a brief summary of the actual profile data. Appendices contain the listings and plots of the survey data along with the tables and plots of the wave and water-level data.

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PREFACE

This report was prepared at the Coastal Engineering Research Center (CERC) of the US Army Engineer Waterways Experiment Station (WES) as part of the Storm Erosion Studies Work Unit, Shore Protection and Restoration Program; Coastal Engineering Area, Civil Works Research and Development. Technical Monitors were Mr. John H. Lockhart, Jr., and Mr. John G. Housley, Headquarters, US Army Corps of Engineers.

Mr. Peter A. Howd and Mr. William A. Birkemeier of CERC's Field Research Facility Group prepared the report under the supervision of Mr. Curt Mason, former Chief, Field Research Facility; Mr. Thomas W. Richardson, Chief, Engineering Development Division; and Mr. Charles C. Calhoun, Jr., and Dr. James R. Houston, Assistant Chief and Chief, CERC, respectively. Messrs. Eugene W. Bichner, Charles R. Townsend III, Michael W. Leffler, Francis E. Sargent, and Ms. Rebecca J. Savage, plus many others, contributed to the collection of the data. Ms. Harriet M. Klein assisted greatly by untangling complexities of the English language. The wave and water-level data presented in the report were collected by CERC's Field Research Facility Measurements and Analysis Work Unit under the direction of Mr. Herman C. Miller. This report was edited by Ms. Jamie Leach of the WES Information Technology Laboratory.

Commander and Director of WES upon publication of this report was COL Dwayne G. Lee. Technical Director was Dr. Robert W. Whalin.

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BEACH AND NEARSHORE SURVEY DATA: 1981-1984

CERC FIELD RESEARCH FACILITY

PART I: INTRODUCTION

1. The Field Research Facility (FRF) of the US Army Engineer Waterways Experiment Station (WES), Coastal Engineering Research Center (CERC), was established to provide a research and development capability for field studies of coastal processes. An important part of the FRF operation has been the collection of long-term data sets of waves, currents, tides, atmospheric conditions, and beach profile change. The purpose of this report is to present the first 4 years of highly accurate profile data collected under the Storm Erosion Studies work unit.

2. This continuing data set is unique in the field of beach profile studies because of its accuracy, temporal coverage, and concomitant wave, weather, and water-level information. Surveys of four shore-normal profile lines were completed at approximately 2-week intervals. Nowhere else does such a data set exist. It provides a unique opportunity to examine natural profile changes and to test and evaluate models of beach profile response to changing wave, current, and atmospheric conditions.

3. The FRF is located just north of the village of Duck, N. C., on the Outer Banks (Figure 1). The facility includes a 561-m-long research pier and support buildings. The beach adjacent to the study area is interrupted only by open pile piers from Cape Henry, Va., to Oregon Inlet, N. C., a distance of 110 km. General information regarding the FRF and the surrounding area is provided in Birkemeier et al. (1985). A comprehensive network of weather and ocean sensors provides continuous monitoring of atmospheric and oceanographic conditions. These data are published in a series of annual (Miller 1984; Miller et al. 1985, 1986) and monthly data reports.

4. The data in this report were collected along the four profile lines shown in Figure 2 (Lines 58, 62, 188, and 190). A profile line is defined as a fixed transect across the beach and nearshore which is repetitively surveyed. Table 1 summarizes the location of these lines and the data contained in this report. Based on regular monthly surveys of the bathymetry

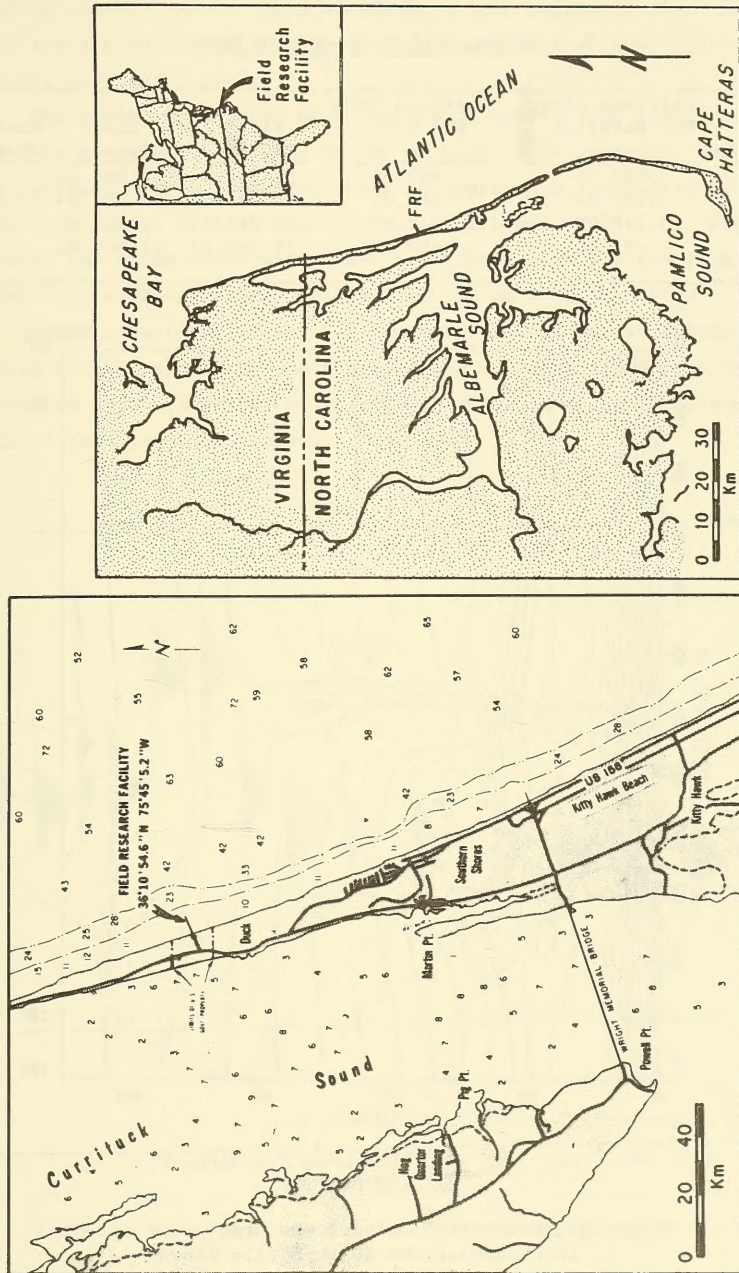


Figure 1. Location of the FRF

Table 1
Summary of Profile Line Data

Profile Line	Distance Along FRF Baseline m	Distance From FRF Pier m	First Survey	Last Survey	Number of Surveys
58	1097.31	580.64	17 Jul 81	13 Dec 84	96
62	1005.84	489.21	26 Jan 81	13 Dec 84	119
188	0.00	-516.63	20 Jan 81	17 Dec 84	127
190	-91.40	-608.07	17 Jul 81	17 Dec 84	99

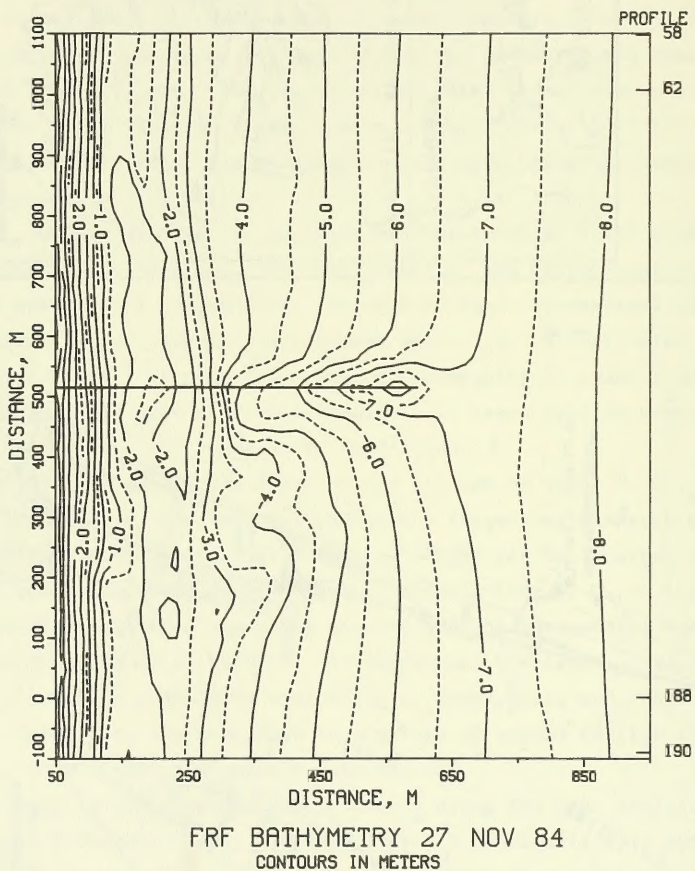


Figure 2. Bathymetric map of the study area showing locations of the four profile lines

surrounding the FRF, these lines are located in a region of shore-parallel contours and are sufficiently removed from known pier effects (Miller, Birkemeier, and DeWall 1983).

5. The beach is composed of a mixture of quartz sand and carbonate shell debris. The carbonate component may be as high as 20 percent. Mean grain size is greatest on the foreshore where it approaches 1 mm, decreasing offshore to 0.1 mm. Sorting improves in an offshore direction. Figure 3 illustrates the cross-shore variation in sediment size distribution based on a series of samples taken along profile line 188 on 17 March 1982.

6. Storm conditions at the FRF are dominated by extratropical northeasters during the winter months and occasionally by tropical hurricanes. During the period of study, a number of significant storms occurred, although no major hurricanes passed the area.

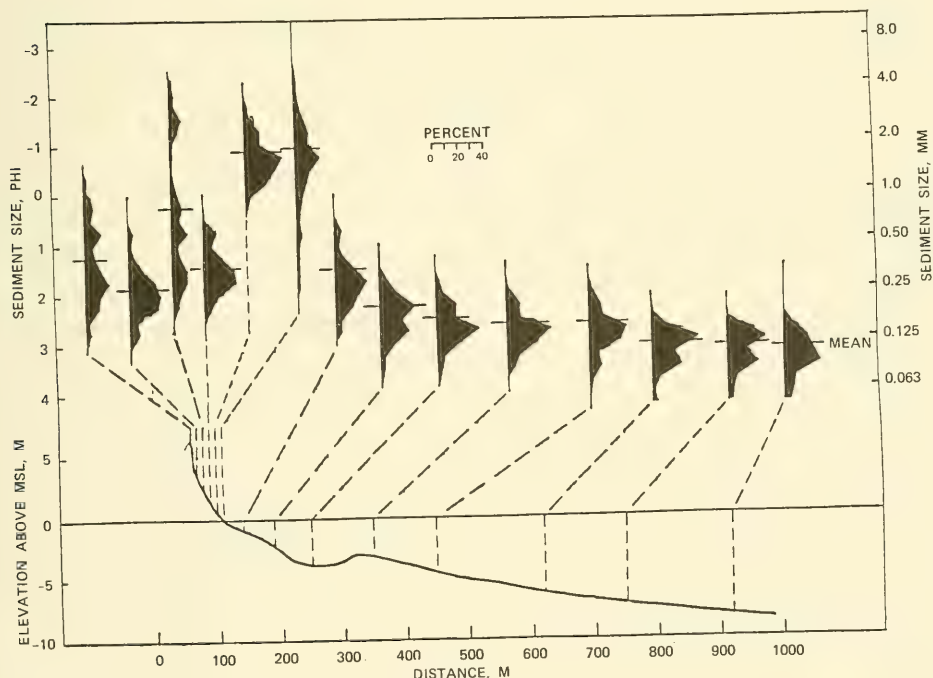


Figure 3. Distribution of sediment sizes across profile line 188 on 17 March 1981

7. The report includes five parts and six appendices. Part II discusses the survey methods used to collect the profile data and points out the sources of errors and methods used to minimize those errors. Part III presents summary comments about profile characteristics and patterns of profile change as an aid in interpreting the data. Part IV presents the associated wave and water-level data. The report is summarized in Part V. Appendices include plots of all the profiles (Appendix A), tables of the profile data along with a FORTRAN computer program to read and check the data (Appendices B and C), plots of wave height for the 4-year period (Appendix D), tables of wave height and period (Appendix E), and plots of the observed tides (Appendix F).

PART II: PROFILE DATA

8. This part describes the methods used to survey the profile data and identifies potential sources of error and how errors were handled. The data for each profile line are a series of distance-elevation pairs measured during a repetitive number of surveys. The data extend from a shore-parallel base-line, located landward of the duneline, out to a usual depth of 8 to 9 m. Elevation data are referenced to the 1929 National Geodetic Vertical Datum (NGVD) using third-order control established at the FRF. Each survey of each profile line is uniquely identified by a profile number and survey number.

9. Surveys were initially conducted biweekly, the northern lines one week followed by the southern lines the next. This sequence changed in December 1982 to biweekly surveys of all four lines. Full bathymetric surveys of 15 to 28 lines surrounding the FRF were also conducted monthly. Additional surveys were added to cover significant storms and in support of special experiments. The time interval between surveys varied from 1 to 44 days.

The CRAB

10. The method used to collect the majority of the profile data is described in Birkemeier and Mason (1984). All profiles were surveyed using the FRF Coastal Research Amphibious Buggy (CRAB) shown in Figure 4. Built by the Wilmington District of the US Army Corps of Engineers, this unique three-wheeled vehicle was modeled after a vehicle originally built by Marine Travelift & Engineering of Sturgeon Bay to monitor a Corps of Engineers beach nourishment project.

11. The CRAB consists of a tripod of 20.3-cm schedule-80 aluminum tubing, connected at the base by horizontal members 2.1 m above the ground, and an operations platform 10.7 m above the ground. Power is supplied by a 39.5-kW Volkswagen engine on the deck which drives a variable stroke hydraulic pump. This pump transfers hydraulic fluid at $5.5 \times 10^6 \text{ N/m}^2$ or higher to hydraulic motors at each of the wheels. The variable stroke feature of the pump allows an infinitely variable gear ratio in either forward or reverse and constant engine speed. For strength and corrosion resistance, all hydraulic lines are stainless steel except for short flexible sections at the front steering wheel.



Figure 4. The CRAB

12. Total vehicle weight is about 8,200 kg; the distance between the rear wheels is 8.2 m. Though it appears top heavy, the liquid-filled tires and wide wheelbase make it very stable. It has passed a 20-deg tilt test and is designed to withstand even steeper angles.

13. Top speed of the CRAB is 3.2 km/hr on land and somewhat less in the water. Since the maximum significant wave height for operation is 2 m, the CRAB is capable of operating in all but the most severe east coast storms. The large tires have a negligible effect on a hard rippled sand bottom; however, scour around the tires has been observed in areas of active wave breaking or strong currents if the CRAB remains motionless. The CRAB cannot be used on soft silty or loose bottoms.

14. All beach and dune surveying was accomplished with the standard

technique of sending a rodperson along the transect, stopping at regular intervals and breaks in slope.

Early Stadia Surveys

15. From January to June 1981, the position and elevation of the CRAB were determined using an automatic level, located on the beach, to read a 12.3-m-high stadia board attached to the CRAB. This system was slow and sensitive to a wide range of errors. Primary sources of error included out-of-level or poorly aligned instruments, stadia reading errors, fieldbook and transcription errors, and instrument stationing errors. Estimated accuracy in distance was from ± 0.3 to ± 6 m. Vertical accuracy was estimated to vary from ± 0.03 to ± 0.6 m. Single points or surveys may have been in greater error.

16. Errors tended to increase with distance. This resulted from the increased difficulty in reading the stadia board and the greater impact of out-of-level errors. Because of these errors, data collected prior to June 1981 end approximately 600 m offshore. Points farther offshore were of questionable accuracy and have been dropped.

17. Although of inferior quality to later surveys, the stadia survey data have been retained in the data set because the configuration of the profile lines (which is accurately represented) during this period is unusual and not later repeated.

Electronic Survey System

18. In order to improve the speed and accuracy of the surveys, a Zeiss Elta-2 electronic surveying instrument with automatic data recording was used after June 1981 (Figure 5). This instrument incorporates in one compact unit a first-order electronic theodolite, distance meter, microprocessor, rechargeable power supply, and interchangeable solid state memory module. When optically aimed at a reflecting prism on the CRAB, the instrument uses a collimated infrared beam to measure the distance and the electronic theodolite to measure both horizontal and vertical angles. The microprocessor then uses these measurements plus the coordinates of the instrument to compute X, Y, and Z Cartesian coordinates of the ground point under the CRAB (corrected for

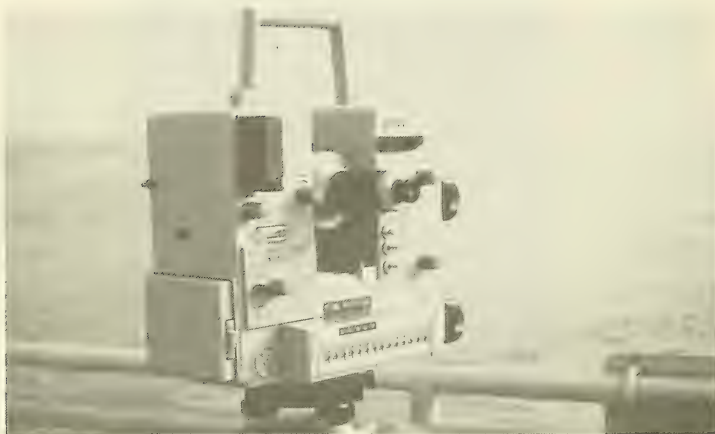


Figure 5. Zeiss Elta-2 electronic surveying instrument

earth curvature).

19. The stated operating range is 2 km with a triple prism assembly as used on the CRAB. Working accuracy of ± 3 cm or better is possible in both horizontal and vertical coordinates. Actual accuracy in a repetitive survey program is less because of changing atmospheric conditions, different instrument setups, and differences in the actual points surveyed.

20. The high accuracy of the system is shown in Figure 6 (Birkemeier and Mason 1984), which shows 10 repetitive surveys of a profile line collected over a 2-day period under near ideal conditions. While there is movement of the nearshore bar during the period shown, the stability of the offshore zone is of greater interest. Seaward of 220 m, the average range in elevation was 5 cm. The standard deviation of the 10 elevations for a given distance was usually less than 2 cm.

21. Only about 10 sec are required to aim, shoot, and record each survey point. Because the actual coordinates of each point are displayed, the CRAB can easily be kept on line to within ± 1.5 m through radio communications between the CRAB driver and the instrument operator.

22. Once the survey is complete, the solid state memory is removed from the Zeiss, and the data are transferred through a Zeiss interface to a main-frame, desktop, or minicomputer. Because the system only requires proper aim from the operator, instrument reading errors and fieldbook entry errors are eliminated.

23. A unique feature of the Zeiss system is its ability to accept and record an additional piece of information (up to seven digits) with every survey point. This was used to manually enter the angular tilt of the CRAB, which was measured with two orthogonal tilt meters. Up to 14 deg of tilt was recorded on steep portions of the beach. The survey data were adjusted during processing to account for the tilt.

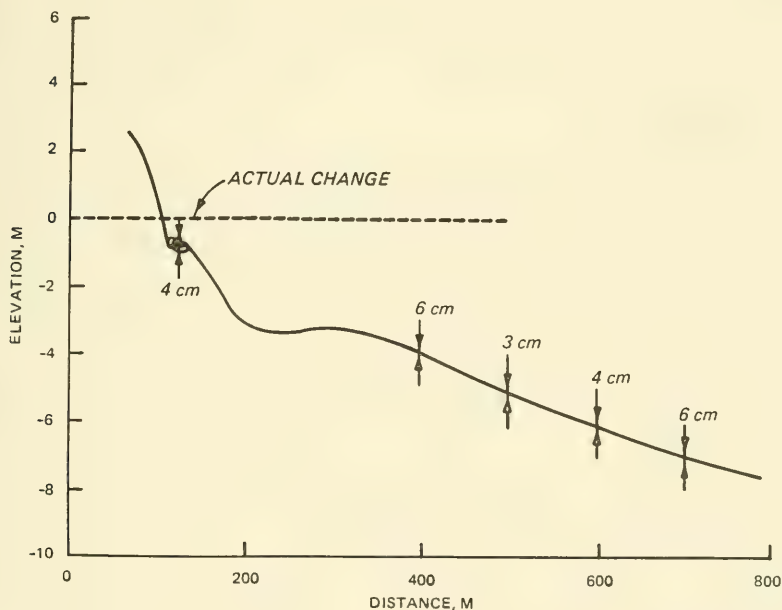


Figure 6. Results of 10 repetitive surveys of a single profile line using the CRAB/Zeiss system

Error types

24. The biases and errors of the CRAB-Zeiss method can be broken down into two distinct categories: limitations of the instrument and operator errors.

25. The Zeiss Elta-2 is capable of measuring both horizontal and vertical angles to ± 0.6 sec of arc and distances to ± 1 cm in the mode most commonly used at the FRF. The specified range when using a triple prism configuration is 2 km. Increasing the number of prisms increases the range.

26. The instrument is sensitive to atmospheric and climatic variation since it uses the speed of light to determine distance and optical aiming to measure the angles. The instrument does allow for rough adjustment for these variables. During the summer months, heat shimmer and temperature gradients near the land-sea interface may also affect the accuracy of the angular measurements. These errors are assumed to be negligible relative to other types of errors.

27. On one occasion the Elta-2 developed an internal problem which introduced a gradual bias into the data. This bias was identified and removed during processing. Errors of this type are difficult to remove because they occur radially from the instrument's position and do not uniformly affect the data. The instrument was repaired, and the malfunction did not reoccur. Treatment of errors in the data is discussed below.

28. Operator errors can result from improper leveling of the instrument, an error in positioning the instrument in coordinate space (particularly in elevation), movement of the tripod during the survey, and mis-aiming the instrument at the proper location on the prism cluster while taking the measurement. Constructed examples of typical nearshore survey errors and their impact are shown in Figure 7. All the measured points are affected by improper leveling or improper location in coordinate space. Individual points are affected by incorrect aim.

29. A different type of operator error results when topographically important points, such as the bar crest or trough, are missed. Survey points are selected based on the timed travel of the CRAB. More points are taken close to shore where the profile is more complex. It is possible for the

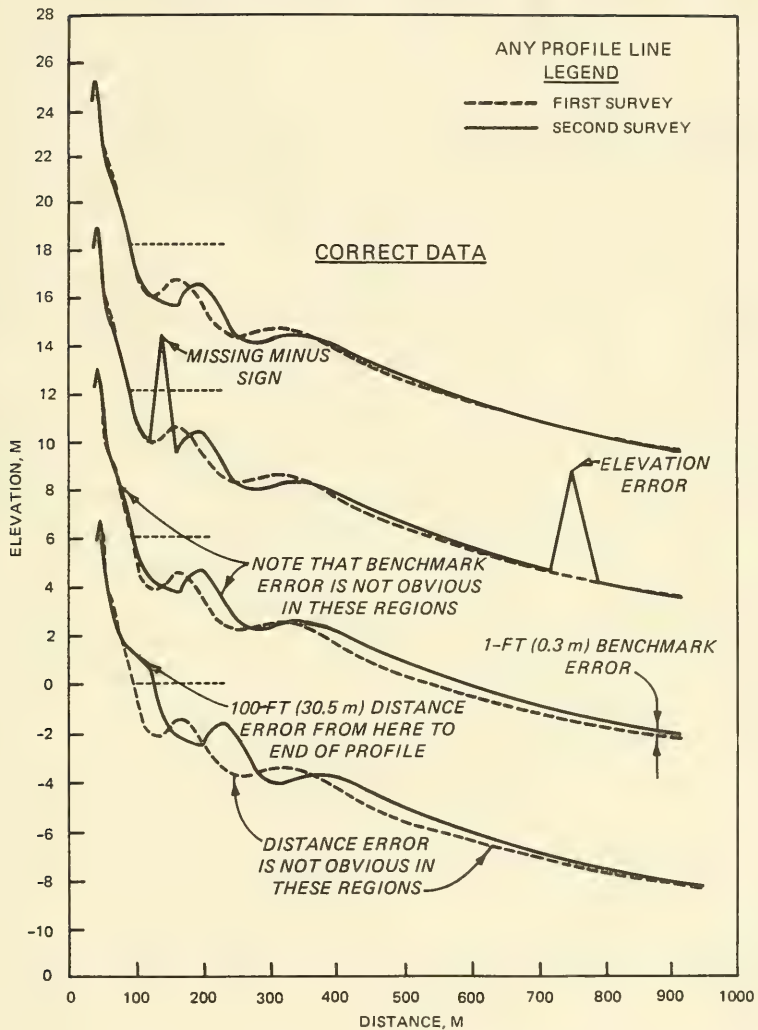


Figure 7. Samples of typical surveying errors and their effects

Zeiss operator to follow the vertical movement of the CRAB, but some significant features were probably missed.

30. A third type of operator error is caused by the instrument being triggered to begin a reading prior to properly aiming at the prisms. This short cut of triggering, then sighting the point, results in sampling the azimuth and zenith angles at the time of triggering and later use of these incorrect angles with the distance to the prisms to calculate the CRAB location. Errors affecting single points are usually easy to detect and remove.

31. An additional but unquantified source of error results from the thermal expansion and contraction of the CRAB frame and its liquid-filled tires. There is also some "error" introduced into the data by averaging the elevation over the 8.2-m base of the CRAB. The prism and the stadia board were mounted in the vertical plane of the back wheels equidistant between them. Some small error also occurs when sediment is compressed by the weight of the CRAB. Divers have observed tread marks on the bottom following the passage of the CRAB. No adjustment to the data has been made to account for these effects. It is suspected that they may be on the order of 3 to 6 cm. This amount of variation combined with the slight uncertainty of the over 100 different instrument setups results in a survey noise level that obscures small bed-level changes along the offshore reaches of the profiles.

Error minimization

32. Two steps were taken to minimize the errors associated with the operation of the Zeiss. First, only known locations were chosen as sites for the setup of the instrument, random locations were not used, and each survey always began with a shot to a prism in a known location. If the measured location of the prism was outside certain tolerances, ± 6 cm horizontal or ± 1.5 cm vertical, the instrument was restationed. Second, periodic checks to the reference prism during the course of the survey helped ensure that the instrument had neither gone out of level nor was in need of restationing.

Error identification

33. Errors in the data are most easily recognized through comparison with the past data collected for that profile. All data were compared with the immediately prior survey of the profile. More often than not, this comparison shows where possible errors occur. The suspect points can then be inspected more carefully and a decision made as to whether the point or points were in error or represented real changes on the profile. Figure 7 shows the

utility of comparison. Questionable data, where no clear error could be discerned, were noted and compared with the next survey as well. This provides a double check. Errors were also identified using the measured location of the reference prism shot in during the stationing procedures. Use of these measurements will be discussed in the next section.

Error correction

34. Corrections made to the data consist of two primary types; deletion of points, and addition or subtraction of biases. The biases were either constant because of improper stationing of the instrument or gradual (distance dependent) resulting from improper leveling of the instrument. Vertical errors from mis-leveling become increasingly evident with increasing distance. Vertical corrections to the data were made employing the known elevation of the reference prism and by comparison with surveys of the same profile immediately before and after the questionable data.

35. Most often the constant vertical offsets were the result of either improper stationing of the instrument (setting its elevation incorrectly), or, rarely, improper entry of the elevation of the prism cluster on the CRAB. Both of these errors could be traced to the data through the recorded setup procedure. If there was no evidence of a mistake in stationing the Zeiss or entry of the prism height, removal of the suspected bias was dependent on two factors; the bias had to extend over the entire profile (past the normal closure point), and there had to be no reason to expect evidence of profile activity at depth. For instance, if the measured profile showed significant erosion at a depth below the extreme profile closure depth during a period of below-normal wave activity, errors were strongly suspected. However, the bias was removed from the data only after a second survey of the profile further indicated that an error had been made.

36. Gradual biases, or rotations of the data, which result from calibration or leveling errors rather than stationing errors, can be more difficult to discern in the data. These corrections were made only to the early level and stadia board data. The shift in the data could be directly attributed to a miscalibration of the automatic level, or to a leveling error during or after setup of the instrument. The rotation needed to correct the data was determined by recalibration of the level.

37. Another category of data editing was the removal and/or correction of obviously erroneous data points. These points were usually the result of

improper entry of the height of the CRAB prism cluster into the Zeiss, errors due to the incorrect targeting of the prism cluster, or points which were unaccountably, but obviously, wrong.

38. The data were also corrected for the angle of tilt of the CRAB. The CRAB operator measures the two orthogonal angles on the main axes of the CRAB. Angles greater than 4 deg are radioed to the Zeiss operator who enters them into the recorded data. The angles are automatically accounted for during processing of the data.

39. Corrections made to the data, (except CRAB tilt corrections), are recorded in processing and data-collection logbooks and are coded into the data file. The meaning and format of the codes are presented in Appendix B.

Special Notes on the Survey Data

40. A number of surveys within the data set require specific discussion regarding data quality. The early stadia surveys (January to 1 June 1981) have already been described. From approximately 14 December 1982 until 9 February 1983, the Zeiss Elta-2 was intermittently producing questionable results which appeared as a systematic vertical error. From 24 February 1983 through 28 March 1983, the instrument was being repaired and alternate methods were employed. These included the use of the stadia board and automatic level to determine elevation and a Motorola Mini-Ranger positioning system to determine offshore distance (24 February to 3 March). A loaner Zeiss instrument was also employed (22 March to 28 March).

41. Because this was an unusually active period of profile response with a number of significant storms occurring, the data during this period have been retained in the data set. They do accurately reflect the changes in profile configuration which occurred, but the horizontal and vertical accuracies are less than for the remaining CRAB/Zeiss data.

42. Data prior to December 1981 were saved only to whole feet in distance and tenths-of-a-foot in elevation (normal accuracy for beach profile data). Because of the greater accuracy of the CRAB/Zeiss data, subsequent data are stored to tenths-of-a-foot in distance and hundredths-of-a-foot in elevation. This too has an impact on the overall accuracy of the data.

PART III: PROFILE RESULTS

43. The data presented in this report have been described by Birkemeier (1985a). Some of the discussion from that report is repeated here as an aid in interpreting the data. Profile changes at the FRF occur at time scales ranging from minutes to annual cycles and longer. Time scales resolvable with the data in this report vary between a few days and 1 to 2 years. Though the profiles have varied in configuration from nearly unbarred to triple barred, they typically exhibit a double bar with a narrow and well-defined inner bar and a broad outer bar. Figure 8 illustrates five of the configurations observed during the study.

44. The profile envelope defined by all surveys of line 188 is shown in Figure 9. The plot of maximum vertical change in the upper half of Figure 9 indicates most profile activity is restricted to depths less than 7 m with little measurable vertical variation at deeper depths (only 15-cm maximum variation at 8-m depth). It is not clear how much of this 15 cm is real. Birkemeier (1985b) examined the changes within the data set caused by storms and found that significant storm-induced bed-level changes (>3 cm) occurred at depths less than -6.4 m relative to mean low water (-6.8 m below National Geodetic Vertical Datum, NGVD).

45. One of the best indicators of profile configuration and activity is the location of the bar crest. Large changes to the profile in terms of volume changes always result in movement of the bar system. Minor storms typically force only the inner bar offshore, while larger storms may move both bars offshore, depositing sand in deeper water. Storm changes were rapid, occurring over periods of 1 to 5 days. The rapidity of these changes is discussed further in Sallenger, Holman, and Birkemeier (1985).

46. Onshore bar movement usually corresponded to periods of low waves between storms. The speed and the amount of recovery were affected by the wave conditions and by the poststorm configuration of the profiles. All the bar features tended to disappear during extended periods of low wave conditions.

47. An example of the modifications caused by storms is shown in Figure 10. The surveys bracket a series of three storms with the most severe occurring 13-15 November 1981. In contrast, the slow recovery from the changes caused by the fall 1981 storms occurred during 6 months of relatively

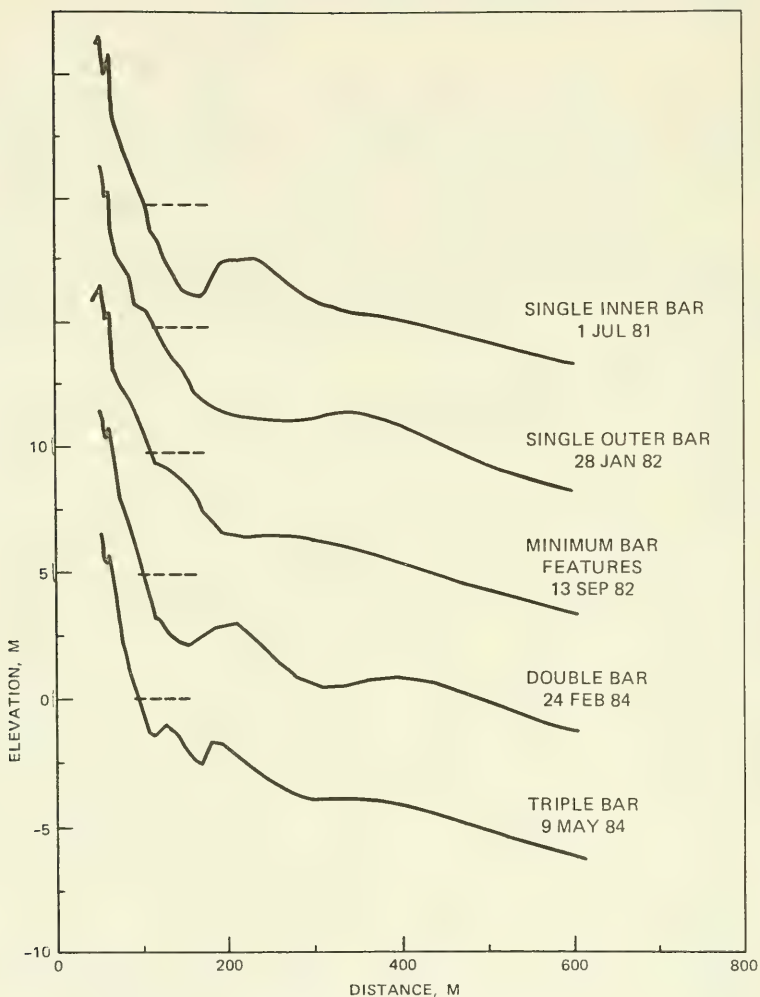
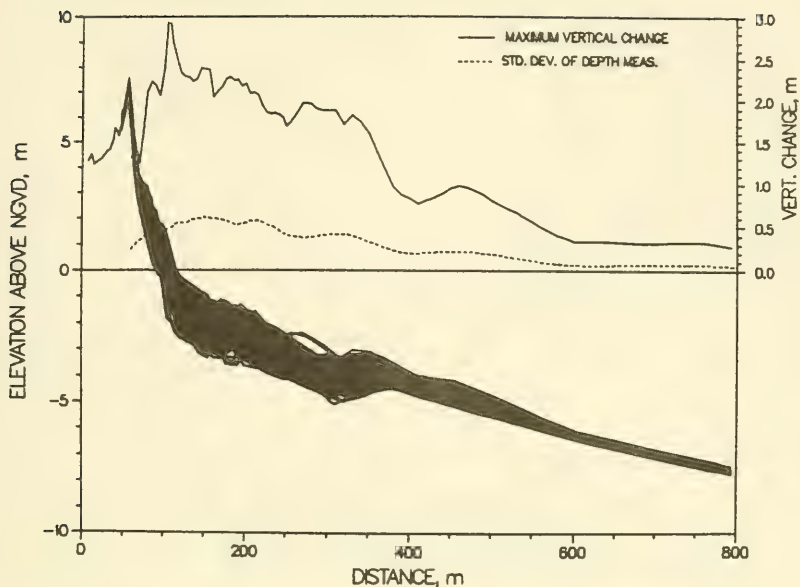


Figure 8. Typical profile configurations occurring in the data set for profile line 62

calm conditions from February to August 1982 (Figure 11).

48. A critical feature of this data set is the fact that four profiles separated in space were measured. Thus, some feeling for the three-dimensional response of the beach is possible. Users of these data are



PROFILE LINE 188, 127 SURVEYS FROM 20 JAN 81 TO 17 DEC 84

Figure 9. Envelope of all surveys of profile line 188

referred to Sallenger, Holman, and Birkemeier (1985) and Howd and Birkemeier (1987) for a discussion of the rapid three-dimensional changes that have been observed at the FRF. As an example, Figure 12 shows profiles 58 and 62 for a sequence of days during October 1982. Initially, both profiles show the bar moving offshore. By the 15th, the bar has begun to migrate onshore at line 62, but continues to move offshore along line 58. (These two profile lines are separated by less than 100 m.)

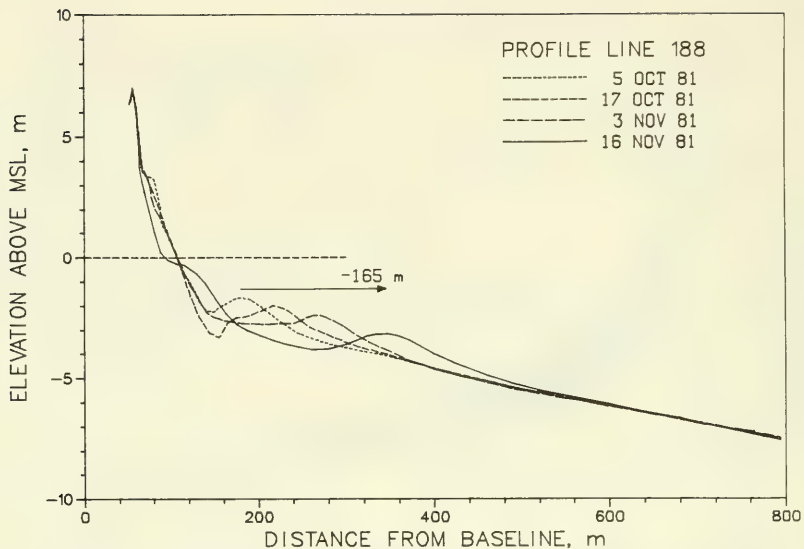


Figure 10. Rapid offshore movement of sediment at line 188 resulting from passage of three fall 1981 storms

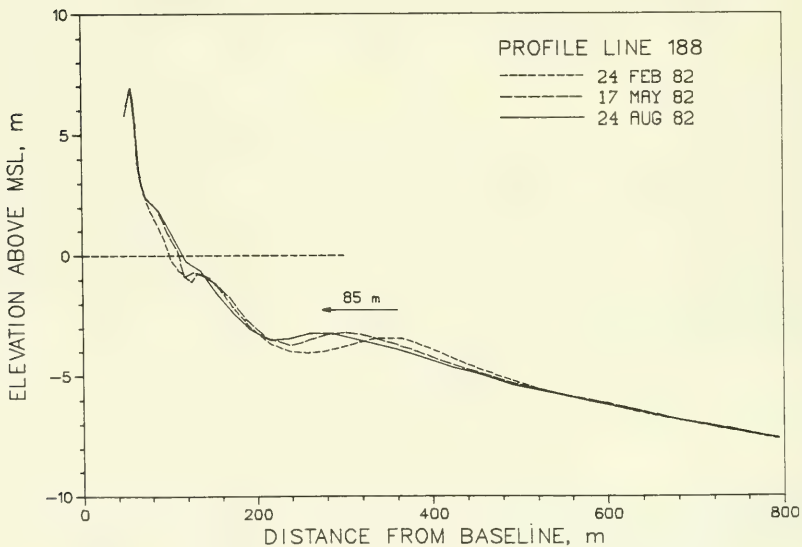


Figure 11. Slow onshore recovery of the outer bar during a 6-month period of low wave conditions

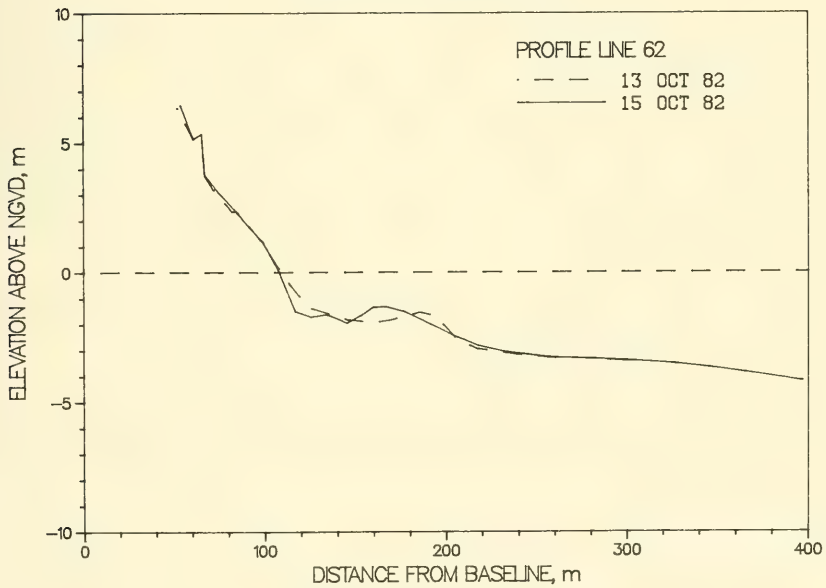
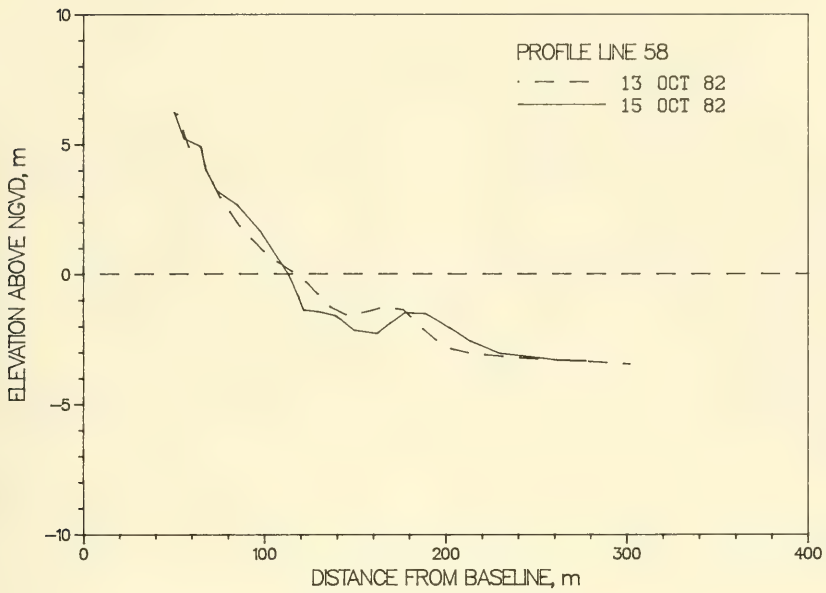


Figure 12. Evidence of three-dimensional profile response at lines 58 and 62 during October 1982

PART IV: WAVE AND WATER-LEVEL DATA

Wave Height and Period

49. The wave heights plotted in Appendix D and tabularized in Appendix E were collected as part of the routine collection program of the FRF Measurements and Analysis work unit. Details of the collection of this data are available in the FRF Annual Data Summaries (Miller 1984; Miller et al. 1985, 1986). The data from a number of gages are sampled at 4 Hz, every 6 hr (hourly during storms) for 20 min. The energy-based significant wave height H_{m0} is computed as four times the standard deviation of the 20-min record. The wave period is computed as period associated with the peak of the wave spectra.

50. To provide as complete a record as possible, data from two gages have been combined. The majority of the record is from Gage 625, a Baylor wave staff gage located at the seaward end of the pier. When this gage was inoperative, data from Gage 620, a Waverider buoy located directly off the pier end in 18 m of water, were transformed to the pier end location using the method of Hallermeier (1983). This method considers frictional dissipation and was developed using data from the FRF.

51. During large storms, Gage 625 was in the surf zone and wave heights were saturated, i.e., limited by wave breaking. The maximum wave height limit depends on water level but is usually under 3 m. The maximum recorded wave height of 3.5 m occurred during a storm in November 1981 that coincided with abnormally high spring tides.

52. The tables in Appendix E contain daily measurements of wave height and period for wave heights under 2 m and measurements every 6 hr for waves over 2 m.

53. More detailed wave information, including wave spectra and data from other gages, is available through the CERC Coastal Engineering Information and Analysis Center (CEIAC).

Water-Level Data

54. The water-level data presented in Appendix F were measured at a National Oceanic and Atmospheric Administration/National Ocean Service (NOAA/NOS) tide station located at the end of the research pier. The data are recorded every 6 min. NOS interpolates missing values using data from nearby gages, accounting for known time lags and elevation differences. The data presented in Appendix F represent the total water-level variation including both the astronomical tides and storm surges. The storm surge is usually defined as the difference between the actual water level and the predicted tides. The total water level should give a better indication of possible forcing of profile change than would the predicted tides or storm surge alone.

55. Because of the voluminous amount of water-level data, Appendix F includes only plots of the water level. More detailed data are available through CEIAC or from NOAA/NOS.

PART V: SUMMARY

56. Four years of high-quality beach profile data collected at the FRF are presented. These data are unique in that they cover the most active part of the profile from the dune out past the depth of closure. The data offer a rare look at the dynamic and often surprising changes that naturally occur in the nearshore zone. The majority of the profile data were collected using the FRF CRAB and a highly accurate electronic surveying instrument. Some relevant dynamic parameters to profile change (wave height, period, and observed tides) are also presented.

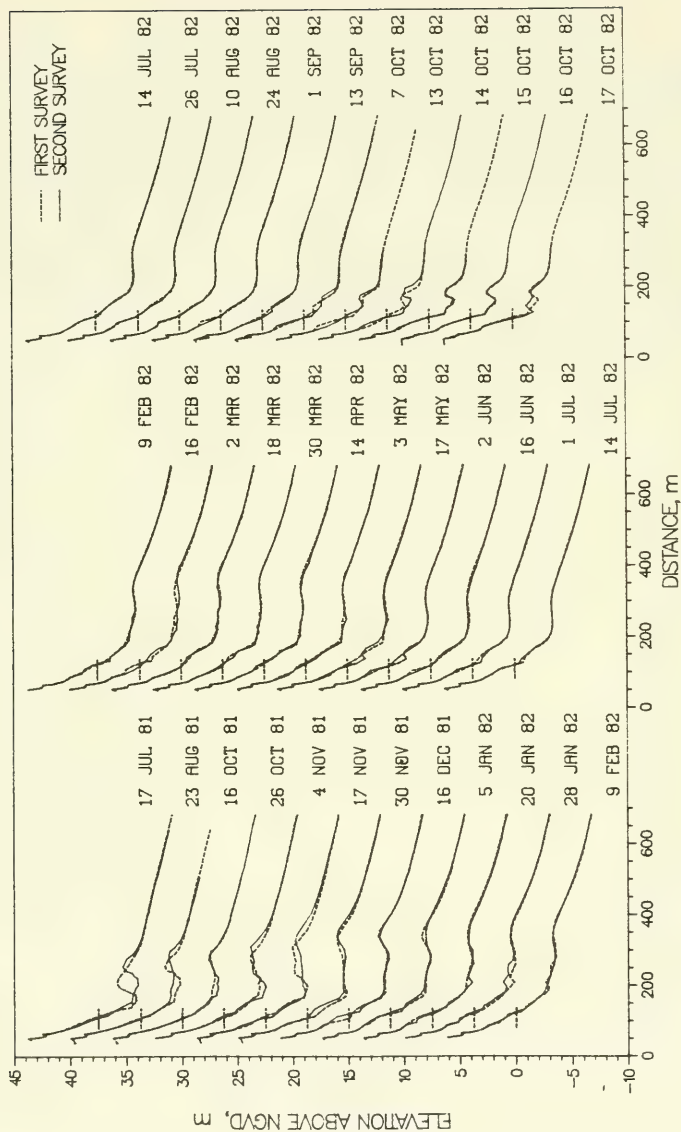
57. The data should be useful to coastal engineers and researchers who need to have an understanding of the dynamic nature of the nearshore zone. They can provide input and calibration data to numerical and physical models of profile changes. Long-term and seasonal profile envelopes can be computed and used as a guide for determining cable and ocean outfall burial depths and where best to place wave- and current-measuring instruments.

REFERENCES

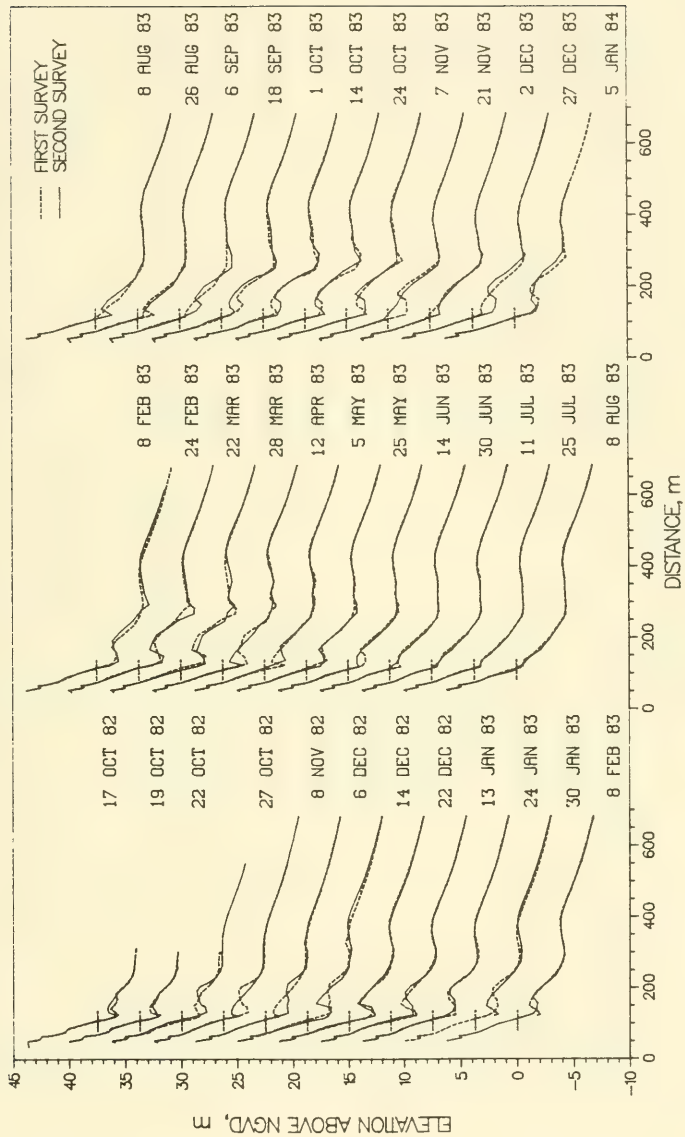
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APPENDIX A: SURVEY PLOTS, 1981-1984

This appendix contains plots of the survey data included in Appendix B. The plots are presented by profile number, starting from the north end of the Field Research Facility property. Refer to Figure 1 of the main text for the location of the profile lines with respect to the pier. Each profile is plotted along with the preceding profile; thus, the change between surveys can be seen. The most recent survey is shown as a solid curve; the previous survey is dashed. The dates of the surveys are given to the right of the data; the lower date corresponds to the solid line.

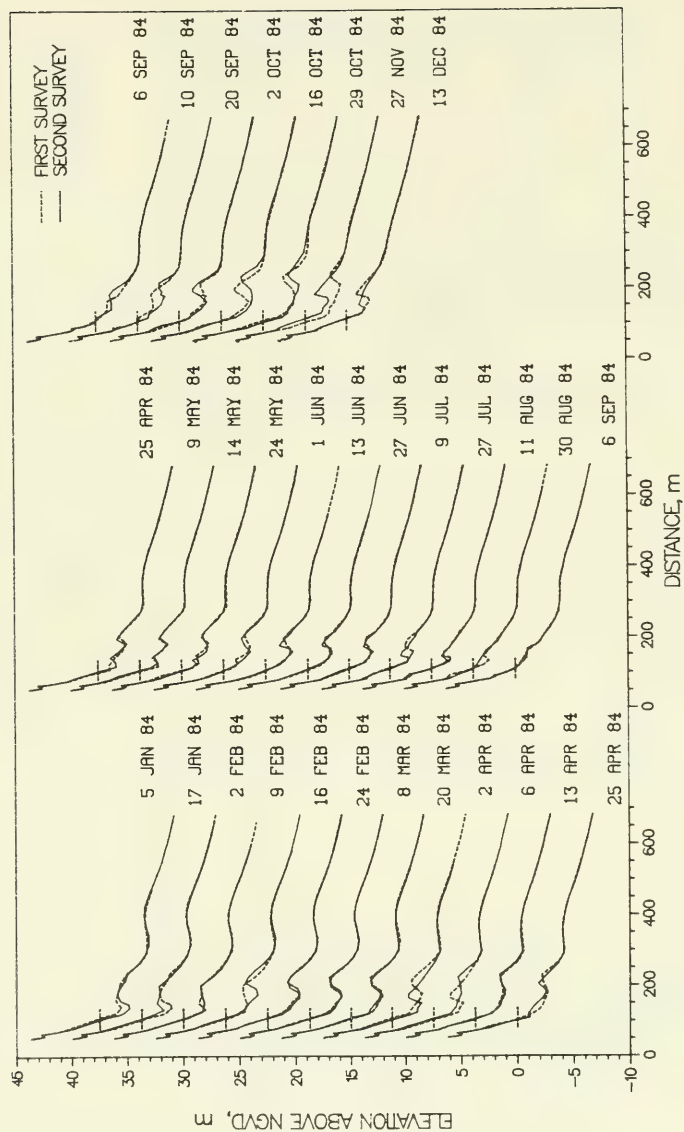


PROFILE LINE 58



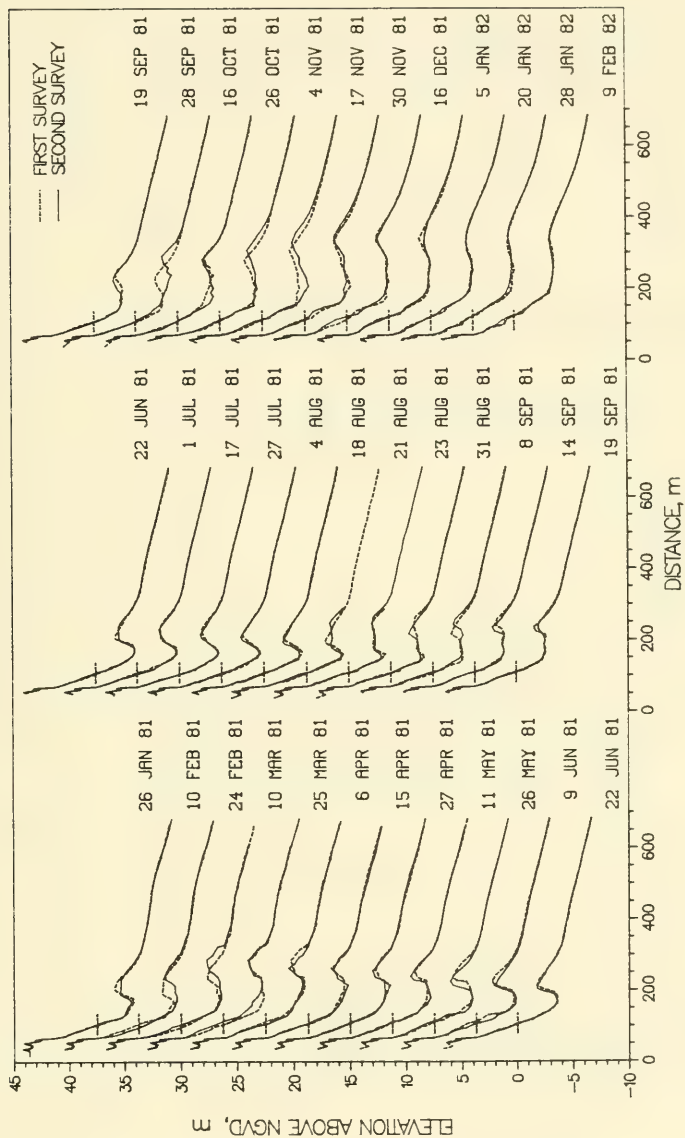
PROFILE LINE 58

Figure A2. Profile line 58, 17 Oct 1982 - 5 Jan 1984



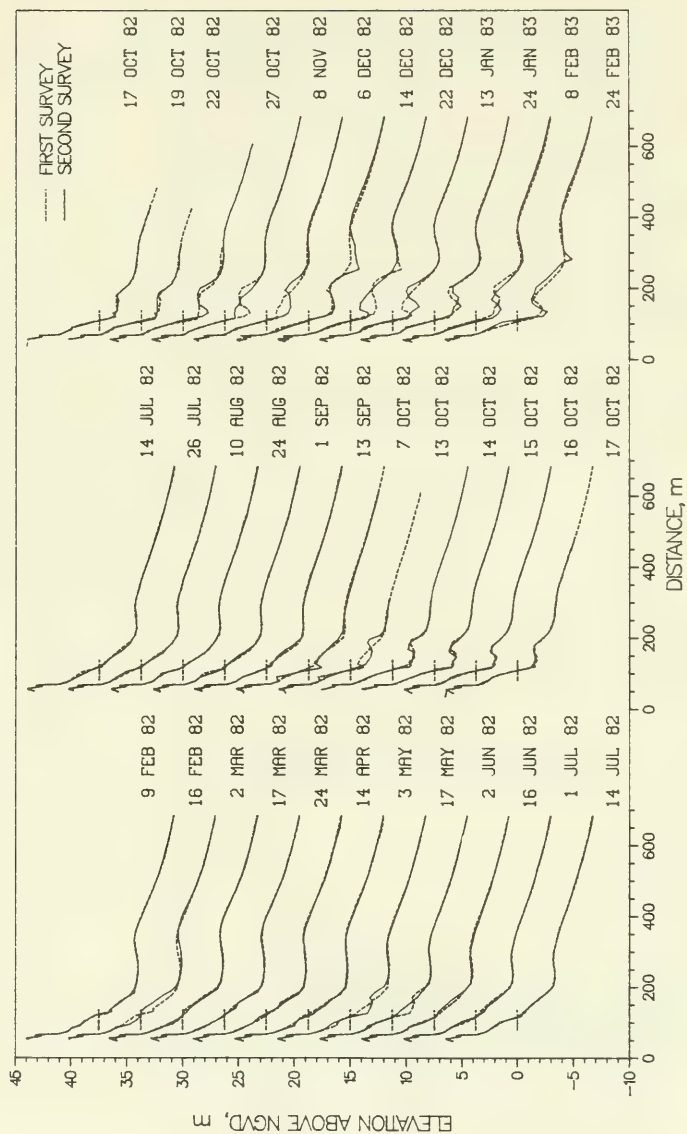
PROFILE LINE 58

Figure A3. Profile line 58, 5 Jan 1984 - 13 Dec 1984



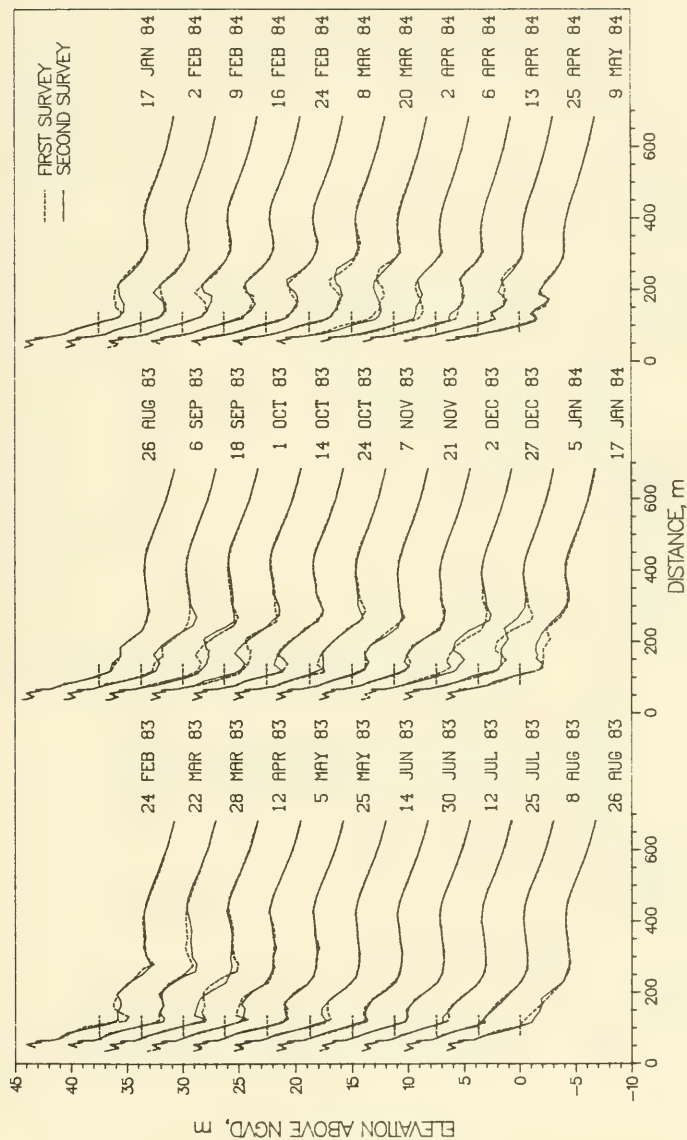
PROFILE LINE 62

Figure A4. Profile line 62, 26 Jan 1981 - 9 Feb 1982



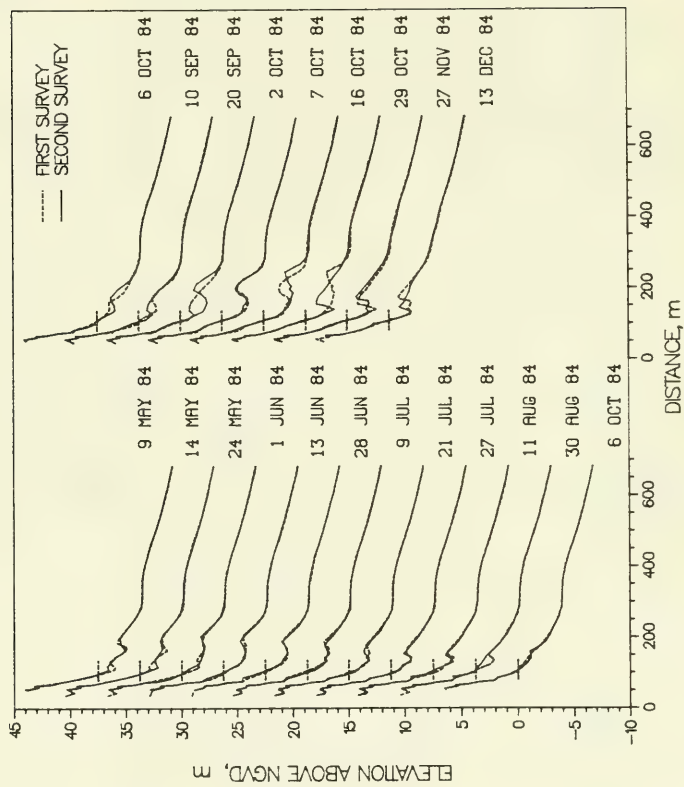
PROFILE LINE 62

Figure A5. Profile line 62, 9 Feb 1982 - 24 Feb 1983



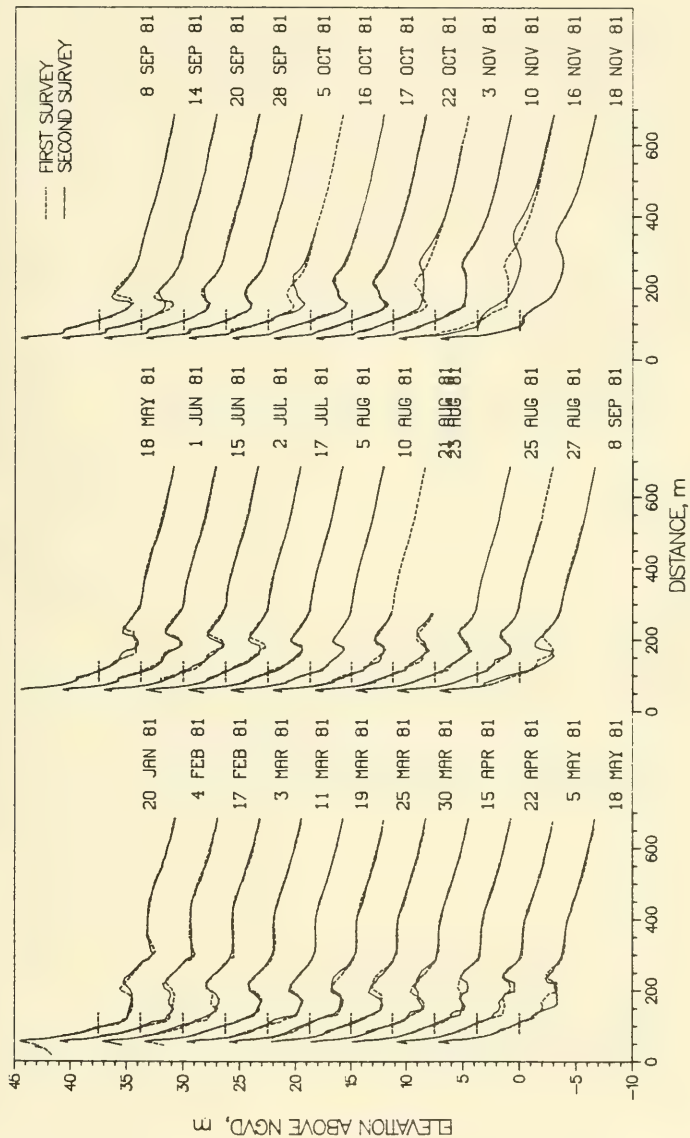
PROFILE LINE 62

Figure A6. Profile line 62, 24 Feb 1983 - 9 May 1984



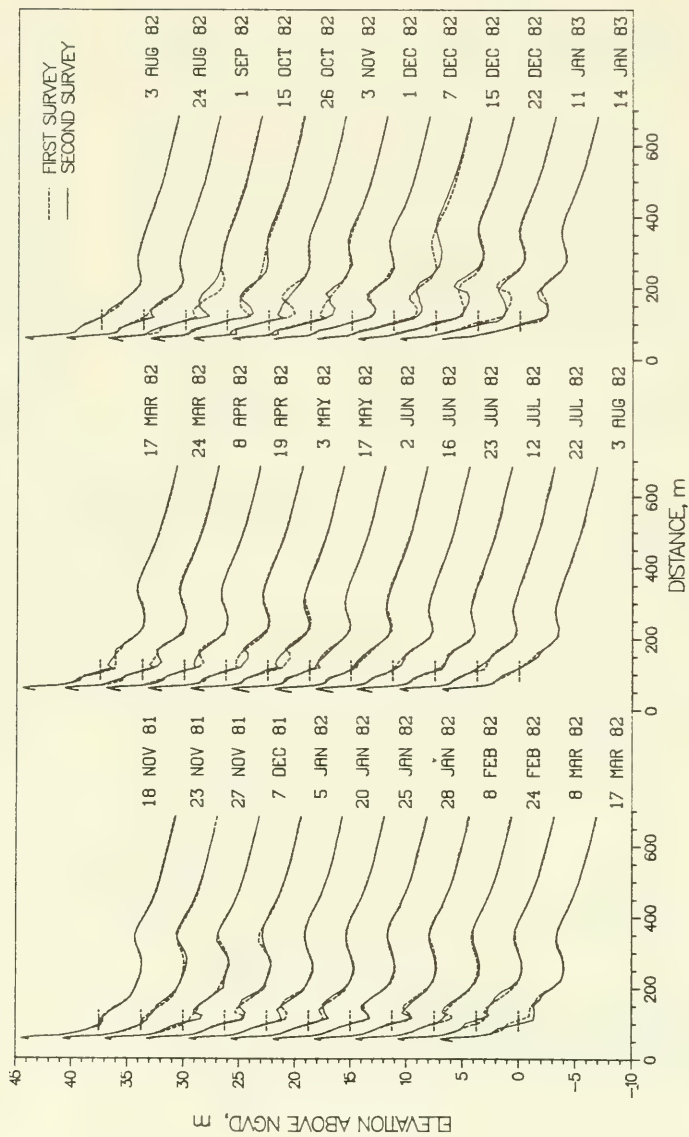
PROFILE LINE 62

Figure A7. Profile line 62, 9 May 1984 - 13 Dec 1984



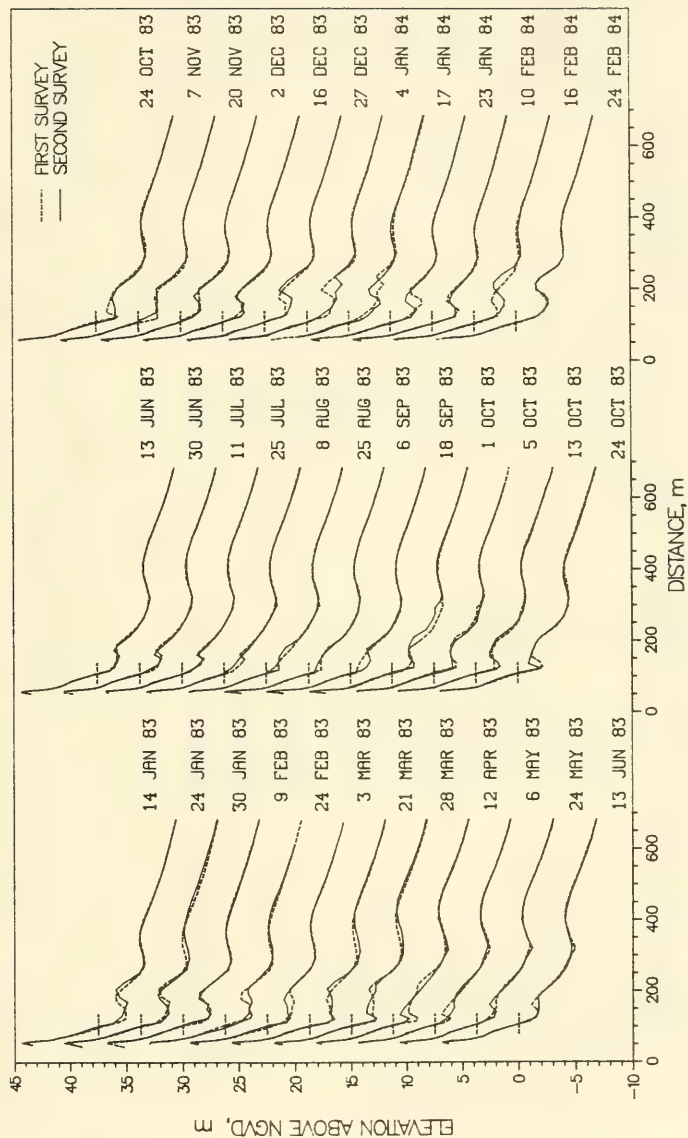
PROFILE LINE 188

Figure A8. Profile line 188, 20 Jan 1981 - 18 Nov 1981



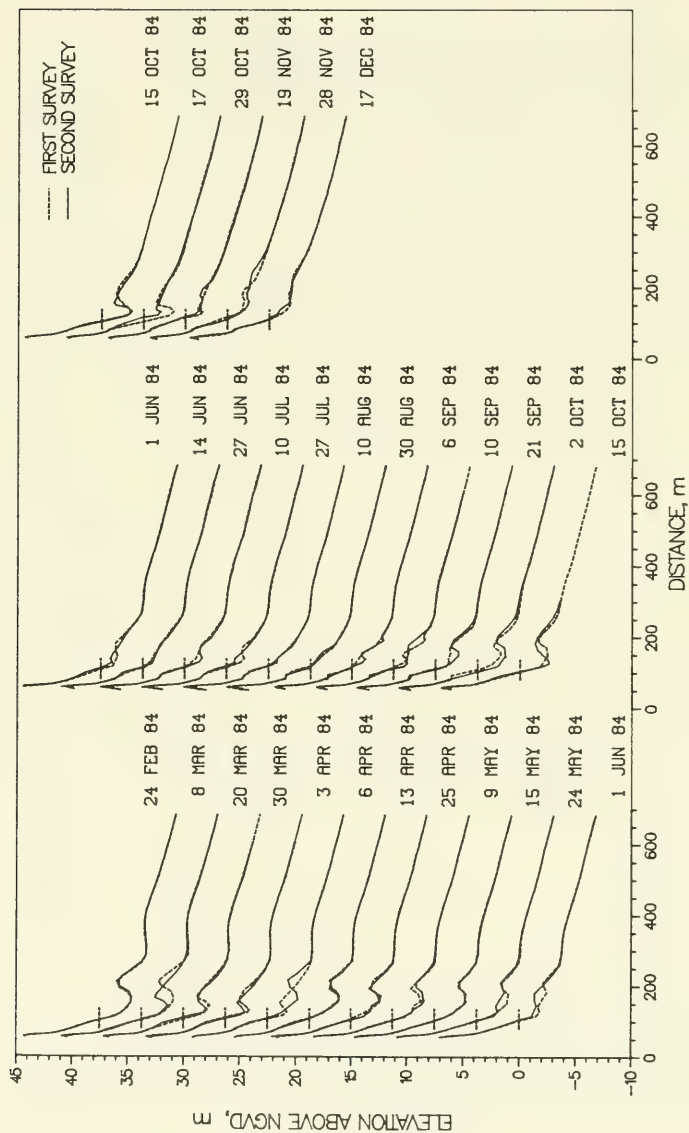
PROFILE LINE 188

Figure A9. Profile line 188, 18 Nov 1981 - 14 Jan 1983



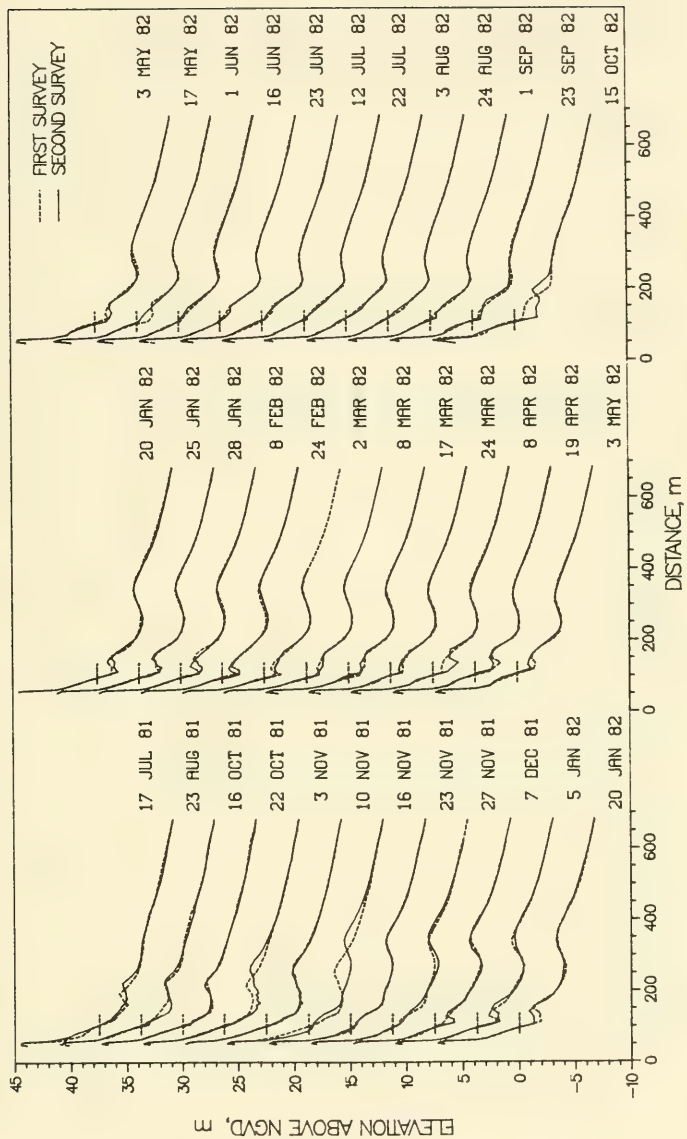
PROFILE LINE 188

Figure A10. Profile line 188, 14 Jan 1983 - 24 Feb 1984



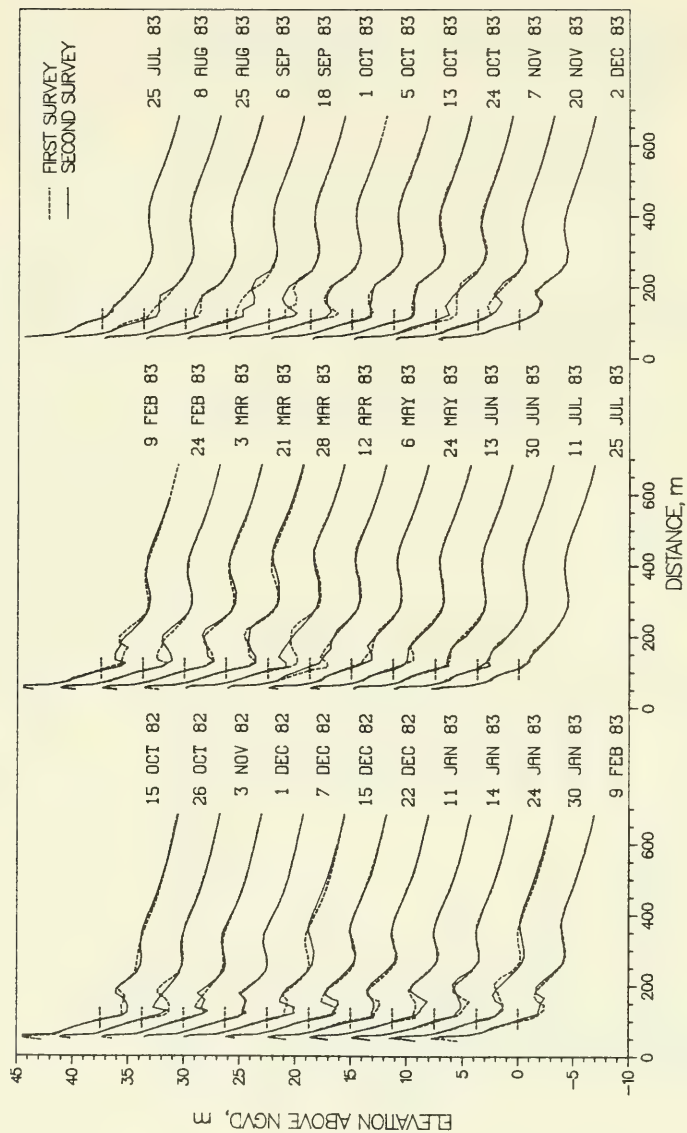
PROFILE LINE 188

Figure A11. Profile line 188, 24 Feb 1984 - 17 Dec 1984



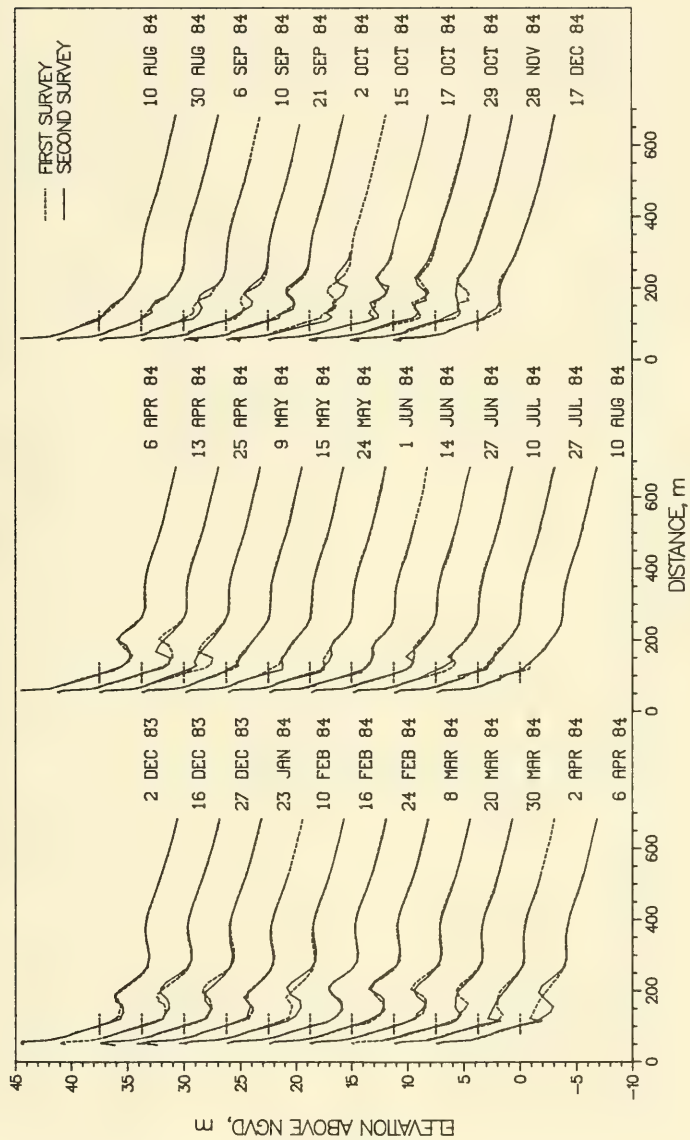
PROFILE LINE 190

Figure A12. Profile line 190, 17 Jul 1981 - 15 Oct 1982



PROFILE LINE 190

Figure A13. Profile line 190, 15 Oct 1982 - 2 Dec 1983



PROFILE LINE 190

Figure A14. Profile line 190, 2 Dec 1983 - 17 Dec 1984

APPENDIX B: SURVEY DATA LISTING

1. This appendix contains the profile data in BPAS Edit 2 card format (Fleming and DeWall 1982),* along with a checksum value. When entering the data into a computer, do not enter any values past column 80. These are produced when the data are run through the program given in Appendix C. Use the given values to check your version for possible data-entry errors.

2. The format of the data is as follows:

First card in each record

Position	Entry description	Format
1-2	Locality Code (ILOC)	A2
3-5	Profile line number (IPROF)	I3
6-9	Survey identification number (ISUR)	I4
10	Card number (always 1 for first card) (N)	A1
11-16	Date of survey (IDATE)	I6
17-21	Time of survey (ITIME)	I5
22-24	Number of coordinate pairs for survey (I)	I3
25-29	Minimum elevation for survey (MIN)	F5.2
30-40	Data change codes (INFO)	A11
41-80	First four distance-elevation pairs (Y,Z) 4(F5.1,F5.2)	

Continuation Cards

1-9	Same as for first card	
10	Card number (2-9, then A-Z)	A1
11-80	Seven distance-elevation pairs	7(F5.1,F5.2)

If there are exactly four coordinate pairs (only one card needed), there must be a second blank card following.

3. The format statement to read the data is as follows:

```

READ (??,???) ILOC, IPROF, ISUR, N, IDATE, ITIME, I, MIN,
.INFO, (Y(J), Z(J), J=1,I)
**** FORMAT (A2,I3,I4,A1,I6,I5,I3,F5.2,A11,4(F5.1,F5.2),/, (10X,
.(F5.1,F5.2)))
  
```

4. The correction codes contained in the INFO field have the following meanings:

G = Gradual correction	C = Constant correction
H = Horizontal correction	V = Vertical correction
D = Deletion of points	A = Addition of points
E = Entire profile	S = Selected random points
O = Offshore points	B = Beach points
MR = Mini-Ranger data	

* See References at the end of the main text.

The remaining space is used to give an indication of the magnitude of the changes made, either by the inclusion of the number of points affected or by the magnitude of the change, or both.

5. The survey data are shown in Table B1.

Table B1

Survey Data for Lines 58, 62, 188, and 190 for 1981-1984

39 58	291810717	1200 50-3200	1550 1980 1680 2050 1830 1690 1940 1540	56
39 58	292 2100 1530 2220 1340 2450 1040 2620 930 2750 800 2900 710 3080 590			0
39 58	293 3350 340 3390 370 3790 0 4090 -300 4390 -620 4620 -980 4890-1000			13
39 58	294 5050-1100 5240-1100 5720-1110 6090 -830 6430 -610 6830 -540 7260 -580			75
39 58	295 8190 -810 9040 -990 9670-112010510-125011700-135012740-141013880-1490			45
39 58	29615040-158016240-167017610-179019270-192021260-208022410-217023870-2260			15
39 58	29725670-239027100-247028460-254030200-265031490-273032950-280034210-2900			18
39 58	29835390-295036600-301037870-306039340-3200			31
39 58	371810823 1600 43-2080	1690 2050 1810 1720 1940 1550 2140 1640		16
39 58	372 2240 1330 2400 1130 2490 1000 2840 630 3280 310 3620 -10 3820 -270			46 315
39 58	373 4080 -380 4310 -500 4660 -680 4900 -850 5130 -980 5440-1000 5680-1010			6
39 58	374 5910-1020 6080-1060 6360-1090 6630-1160 6980-1150 7260-1150 7510-1030			37
39 58	375 7750 -990 7970 -790 8330 -710 9080 -820 9610-104010030-113010460-1200			68
39 58	37611060-128011830-134012630-140013410-148014180-153015120-160016090-1670			42
39 58	37716840-175017900-184019320-194021000-2080			73
39 58	461811016 1600 39-1760	1240 1910 1240 1940 1500 1960 1690 2020		99
39 58	462 1870 1620 2070 1560 2080 1590 2200 1410 2710 730 2820 620 3140 330			67
39 58	463 3400 90 3750 -150 4010 -360 4400 -540 4870 -760 5210 -850 5660 -890			26
39 58	464 5970 -870 6340 -900 6340 -900 6690 -940 7180 -970 7680 -970 8060 -930			54
39 58	465 8390 -900 8760 -860 9030 -830 9440 -830 9760 -86010110-101010390-1080			88 560
39 58	46610790-118011610-131012630-143013450-148014270-156014890-162016570-1760			13
39 58	491811026 1400 45-2380	1700 2030 1910 1580 2150 1570 2320 1200		52
39 58	492 2520 920 2770 670 2850 620 3020 460 3310 210 3570 20 3870 -280			9
39 58	493 4110 -380 4470 -530 4780 -680 5090 -760 5430 -850 5670-1020 5920-1020			88
39 58	494 6150-1060 6500-1070 6760-1030 7010-1070 7310-1080 7660 -960 7880 -960			36
39 58	495 8200 -900 8530 -860 8950 -790 9400 -810 9820 -92010490-110011210-1230			40
39 58	49612020-136012730-143013420-149014440-157015450-167016570-176017550-1850			56
39 58	49718920-195020130-203021530-212022830-223023990-230025650-2380			99
39 58	501811104 1545 43-2920	1700 2010 1920 1570 2180 1460 2460 990		28
39 58	502 2680 740 2820 590 3060 420 3520 200 3900 -100 4040 -290 4420 -410			13 434
39 58	503 4950 -660 5200 -830 5480-1140 5720-1160 6090-1200 6450-1250 6860-1190			93
39 58	504 7280-1050 7710 -870 8160 -850 8790 -900 9460 -85010170 -80010860-1010			83
39 58	50511790-125012770-140013710-151014840-162016160-174017300-183018410-1900			51
39 58	50620220-205021950-217023450-228025000-237026630-246028140-254029880-2670			85
39 58	50731360-271032520-280033610-286034700-2920			9
39 58	521811117 1330 48-2650	1280 1920 1550 1960 1690 1980 1700 2030		93
39 58	522 1810 1730 1920 1580 2030 1560 2140 1650 2210 1290 2360 1080 2510 910			79
39 58	523 2530 920 2820 760 3110 490 3500 140 3690 -200 3980 -320 4480 -520			53
39 58	524 4850 -720 5230 -990 5670-1170 6090-1180 6560-1110 7080-1090 7780-1090			35
39 58	525 8290-1080 8830-1060 9410-1040 9980 -97010690 -89011290 -94012040-1090			99 680
39 58	52612470-119013310-137014250-149015100-159016250-170017350-179018880-1920			77
39 58	52720820-208022020-217022850-222024140-231025380-239026740-246027880-2530			4
39 58	52829170-259030380-2650			82
39 58	551811130 1100 43-2540	1700 2020 1800 1760 1940 1570 2140 1530		87

(Continued)

(Sheet 1 of 61)

Table B1. (Continued)

39	58	552	2190	1300	2500	960	2570	900	2700	810	2800	770	3120	580	3340	230	58
39	58	553	3630	-40	4010	-120	4360	-210	4660	-360	4980	-600	5420	-940	5980	-1090	39
39	58	554	6410	-1070	6900	-1080	7500	-1070	8140	-1110	8700	-1130	9220	-1160	9880	-1120	99
39	58	555	10520	-9901	1130	-8901	11710	-9301	12410	-10801	13240	-12701	13950	-14001	14890	-1540	70
39	58	556	15950	-16601	17080	-17801	18150	-18801	19500	-19902	20690	-20802	21880	-21502	23200	-2250	96
39	58	557	24520	-23402	25730	-24002	26850	-24602	27910	-2540							73 685
39	58	571	811216	1000	44-2626			1705	2010	1867	1640	2069	1567	2148	1554		51
39	58	572	2192	1299	2380	1040	2671	862	2916	776	3069	624	3320	520	3724	334	34
39	58	573	4043	-97	4163	-317	4464	-394	4779	-515	5179	-737	5554	-943	5904	-1020	20
39	58	574	6306	-1049	6665	-1045	7068	-1042	7402	-1040	7900	-1073	8432	-1120	9008	-1195	90
39	58	575	9621	-1184	10336	-10391	11079	-9211	11842	-9891	12637	-11371	13463	-13091	14385	-1457	87
39	58	576	15220	-1576	16244	-1695	17162	-1805	18230	-1881	19718	-2001	21079	-2118	22557	-2218	88
39	58	577	23911	-2300	25206	-2378	26374	-2452	28463	-2562	29561	-2626					6
39	58	581	820105	1200	48-2814			1571	1964	1706	2004	1772	1859	1845	1682		1
39	58	582	1946	1557	2049	1571	2138	1559	2193	1337	2263	1184	2441	1001	2566	916	82
39	58	583	2917	781	3297	599	3721	358	4092	-5	4532	-409	4921	-468	5406	-724	23 482
39	58	584	5788	-893	6219	-992	6578	-1001	7048	-1024	7534	-1062	8103	-1106	8654	-1174	27
39	58	585	9173	-1189	9828	-1125	10443	-1068	11405	-1047	11729	-1058	12358	-1116	12814	-1174	25
39	58	586	13408	-1258	14188	-1380	15093	-1507	16084	-1639	17052	-1762	18230	-1876	19499	-1982	63
39	58	587	20698	-2081	21949	-2170	23267	-2259	24932	-2353	26709	-2462	28171	-2540	29678	-2628	78
39	58	588	31286	-2709	32877	-2814											83
39	58	591	820120	1330	45-2647			1702	2011	1819	1711	1967	1569	2121	1593		73
39	58	592	2167	1445	2199	1284	2331	1075	2543	910	2711	854	2949	740	3158	466	63
39	58	593	3483	420	3671	287	3962	-42	4301	-266	4926	-548	5444	-780	6146	-983	39
39	58	594	6846	-1183	7331	-1058	7906	-1125	8557	-1222	9224	-1196	9800	-1203	10377	-1087	13
39	58	595	11015	-1078	11573	-1099	12283	-1143	13165	-1271	13956	-1388	14724	-1495	15654	-1609	82 546
39	58	596	16677	-1739	17782	-1857	18886	-1960	20074	-2059	21319	-2128	22319	-2227	23586	-2291	58
39	58	597	24831	-2369	25894	-2424	27188	-2503	28243	-2549	29437	-2623	30047	-2647			94
39	58	611	820128	1240	51-2859	CV.0450	D01	1701	2011	1824	1715	1960	1556	2085	1575		68
39	58	612	2139	1570	2192	1325	2352	1090	2622	894	2858	810	3102	503	3434	365	42
39	58	613	3877	233	4230	-128	4397	-257	4681	-305	5070	-507	5560	-705	5983	-918	44
39	58	614	6418	-958	6873	-860	7517	-1007	7986	-998	8485	-1009	8881	-1140	9358	-1166	90
39	58	615	9944	-1142	10461	-1138	10935	-1084	11517	-1077	12097	-1109	12677	-1164	13233	-1246	24
39	58	616	14165	-1389	15081	-1521	15866	-1633	16867	-1757	17954	-1859	18955	-1969	20209	-2051	28
39	58	617	21466	-2148	22651	-2238	23866	-2321	24974	-2372	26082	-2436	27199	-2521	28213	-2573	17
39	58	618	29258	-2610	30288	-2690	31308	-2738	32551	-2811	33616	-2859					6 471
39	58	621	820209	845	40-2785	CV.12508		1709	2019	1872	1645	2048	1575	2133	1610		46
39	58	622	2211	1310	2446	999	2563	922	2615	899	3054	633	3487	342	3924	109	6
39	58	623	4139	-153	4481	-286	4964	-486	5435	-641	5861	-796	6333	-870	6797	-921	89
39	58	624	7274	-979	7822	-1033	8459	-1102	9067	-1136	9772	-1120	10619	-1064	11405	-1062	90
39	58	625	12339	-1152	13278	-1271	14371	-1422	15731	-1596	17033	-1749	18668	-1912	20134	-2053	10
39	58	626	21771	-2162	23271	-2266	24776	-2363	26245	-2440	27599	-2515	29251	-2608	30916	-2691	57
39	58	627	32772	-2785													57
39	58	631	820216	1330	38-2570			1710	2020	1881	1629	2071	1575	2149	1577		65
39	58	632	2220	1299	2425	1014	2646	875	2858	803	3198	449	3586	377	3971	146	73
39	58	633	4280	-174	4354	-374	4717	-385	5288	-620	5763	-810	6298	-938	6988	-959	40 533
39	58	634	7717	-1030	8371	-1029	9029	-1119	9877	-1095	10762	-1037	11701	-1082	12652	-1197	80
39	58	635	13606	-1328	14688	-1505	16024	-1641	17143	-1753	18570	-1893	19987	-2007	21430	-2116	95

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Table B1. (Continued)

39 58	63622751-220624126-230225433-236626793-243928029-251029100-2570	5
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39 58	652 2433 1035 2631 909 2815 811 3162 424 3513 165 3930 -39 4352 -190	10
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39 58	654 8200-1129 8841-1107 9547-117810184-119210868-116111695-111312412-1129	17
39 58	65513098-119813854-133514732-144415590-156916617-169117760-183919288-1964	2
39 58	65620674-207421909-217223169-224524323-232225319-239126669-246027781-2523	16
39 58	65729873-263330947-267032490-2768	45 278
39 58	671820318 1455 36-2753005 A01 1572 1932 1654 2027 1726 1946 1859 1598	28
39 58	672 2127 1551 2204 1339 2396 1021 2795 821 3292 359 3744 42 4292 -119	42
39 58	673 4690 -183 5122 -411 5517 -683 6030 -943 6436-1012 6958-1082 7495-1044	52
39 58	674 8102-1112 8794-1120 9311-1174 9920-115910524-114411121-109312145-1131	79
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39 58	692 2249 1284 2414 1051 2460 1007 2879 722 3265 426 3649 185 4185 -65	94
39 58	693 4644 -324 5246 -478 5571 -804 5848 -970 6379-1024 6939-1047 7557-1090	78
39 58	694 8174-1136 8893-1166 9548-114910567-111511223-109012005-112212708-1191	23 544
39 58	69513557-130614427-142615579-157316772-171418228-186119523-198020769-2086	80
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39 58	711820414 1030 37-2590 1577 1965 1702 2012 1976 1561 2129 1604	68
39 58	712 2357 1107 2436 997 2436 997 2813 786 3336 358 3813 237 4404 -157	90
39 58	713 4961 -423 5468 -664 6032 -964 6615-1083 7235-1095 7816-1084 8530-1154	78
39 58	714 9192-1180 9933-115710647-110211449-113012367-118313381-135514430-1454	43
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39 58	71625040-235826376-243827789-251529368-259029369-2590	47
39 58	731820503 1330 36-2794 1606 1994 1702 2012 1908 1589 2132 1606	48 524
39 58	732 2388 1063 2510 940 3000 507 3522 304 4035 -16 4519 -301 5040 -504	38
39 58	733 5570 -789 6018-1065 6673-1090 7345-1111 8159-1220 8947-1157 9661-1136	66
39 58	73410420-109911304-111612103-118412935-128313935-141015170-155516581-1708	30
39 58	73518131-187619631-200621174-211922692-223524076-232525469-240026946-2485	70
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39 58	741820517 1430 43-2788 1566 1975 1675 2068 1764 1872 1900 1610	94
39 58	742 2022 1582 2127 1634 2189 1392 2373 1100 2490 975 2493 980 2933 672	68
39 58	743 3540 289 4033 -215 4043 -255 4529 -537 4946 -432 5477 -570 6073 -925	98
39 58	744 6674-1057 7343-1119 7810-1153 8489-1158 9136-1115 9733-108810231-1084	7
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39 58	751820602 1530 43-2776 1572 1961 1679 2052 1766 1863 1910 1598	70
39 58	752 2056 1583 2140 1599 2205 1346 2389 1068 2540 948 2564 934 2999 687	44
39 58	753 3404 550 3865 -19 4367 -196 4814 -366 5433 -651 5960 -902 6476-1037	85
39 58	754 7093-1108 7877-1147 8555-1155 9163-1116 9751-109210486-108911175-1129	8
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39 58	75619938-202121389-214322760-226024157-232525486-240126950-248428276-2550	67
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39 58	761820616 1245 40-2829 1563 1947 1689 2026 1769 1850 1908 1580	71 612

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Table B1. (Continued)

39 58	762 2043 1570 2138 1591 2204 1328 2432 1017 2445 995 2988 676 3515 252	59
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39 58	76513725-144214899-157415908-167417449-182019080-195920520-208122009-2190	90
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39 58	781820701 1200 46-2750 1588 1978 1686 2058 1902 1593 2037 1583	76
39 58	782 2142 1593 2206 1341 2344 1122 2553 941 2631 891 2719 858 2985 669	92
39 58	783 3448 463 3867 18 4137 -255 4604 -312 5328 -541 5865 -837 5917 -827	21
39 58	784 6466-1021 7081-1082 7643-1101 8130-1103 8687-1088 9407-106510128-1087	37 588
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39 58	78727096-250627636-252729549-262130421-267431117-270531158-272131797-2750	73
39 58	791820714 1600 37-2812 1557 1958 1690 2027 1890 1604 2129 1631	82
39 58	792 2190 1373 2458 989 2472 988 2969 686 3608 363 4000 -124 4389 -195	22
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39 58	794 9822-107310546-111011390-118612396-128813273-139314597-154416139-1702	10
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39 58	811820726 1130 34-2850 1681 2031 1910 1585 2136 1598 2200 1345	53 541
39 58	812 2411 1036 2479 977 2872 763 3420 498 3900 31 4245 -135 4947 -395	17
39 58	813 5583 -704 6250 -998 6960-1101 7717-1134 8532-1103 9346-109510224-1104	34
39 58	81411274-119012306-130513402-141414939-157116586-173118174-188019751-2016	57
39 58	81521273-213422884-225624469-234526169-244227734-251929325-261630751-2682	70
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39 58	831820810 1015 36-2819 1681 2012 1707 2012 1947 1562 2132 1600	25
39 58	832 2196 1346 2407 1035 2560 924 2961 684 3313 615 3792 112 4288 -153	67
39 58	833 4818 -373 5403 -719 5951 -873 6640-1052 7367-1098 8082-1105 9103-1079	36
39 58	834 9767-107710506-111611269-118912203-127513282-139514602-154615862-1667	26
39 58	83517503-183219373-199221131-211522556-222223955-230925580-241727027-2483	85 476
39 58	83628780-259230454-268931959-276733225-2819 1575 1962 1690 2030 1898 1580 2135 1628	47
39 58	841820824 1305 36-2821 1575 1962 1690 2030 1898 1580 2135 1628	62
39 58	842 2219 1301 2457 992 2476 968 2995 658 3393 613 3945 -7 4647 -336	93
39 58	843 5346 -706 6073 -949 6804-1071 7584-1094 8390-1087 9106-1079 9823-1083	91
39 58	84410629-112811519-120112469-129913377-141814561-153415812-165917118-1799	71
39 58	84518560-193120091-204321603-215623052-225824579-235325918-241827393-2509	38
39 58	84628807-258830269-264931866-274533076-2821 1683 2028 1921 1559 2138 1639 2234 1277	16
39 58	851820901 1510 38-2835 1683 2028 1921 1559 2138 1639 2234 1277	86
39 58	852 2426 1010 2469 980 2958 681 3473 305 3948 -28 4505 -216 5117 -539	6
39 58	853 5740 -835 6343 -988 7024-1059 7784-1096 8374-1098 9056-1073 9868-1105	9 519
39 58	85410844-114311536-120712278-130313491-142414559-156415883-167917249-1813	90
39 58	85518600-192620028-205421419-215722543-221723543-230724978-239426181-2460	30
39 58	85627468-251728817-258730137-265231368-272032501-280333988-2835	60
39 58	871820913 1425 40-2815 1496 1962 1713 2002 2118 1638 2276 1216	2
39 58	872 2469 988 2499 965 3055 597 3663 39 4335 -303 4734 -271 5321 -545	45
39 58	873 5651 -727 6072 -925 6323 -997 7079-1075 7171-1059 7834-1082 8518-1064	9
39 58	874 9186-1073 9245-1069 9246-1069 9712-109210436-114111170-120211983-1282	32
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Table B1. (Continued)

39 58	87622514-223224156-234525545-241426789-249128413-257030267-266431643-2733	16
39 58	87732950-2815	71 421
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39 58	892 2168 1537 2203 1358 2227 1298 2494 955 2987 805 3509 280 3867 -234	47
39 58	893 4312 -368 4840 -532 5644 -547 6567-1001 7422-1042 8271-1051 9067-1079	37
39 58	89410136-115111058-123212648-137613839-149215268-163416560-176017974-1885	47
39 58	89519624-201321047-2119	26
39 58	901821013 1040 23-1142 1703 2017 1921 1590 2130 1628 2200 1383	75
39 58	902 2398 1075 2533 903 2883 556 3365 218 3960 -56 4475 -424 4790 -533	78
39 58	903 5152 -476 5440 -420 5800 -457 6135 -689 6488 -897 6689 -955 7050-1012	71
39 58	904 7635-1046 8038-1071 8447-1085 9150-1108 9892-1142	24
39 58	911821014 1400 56-2417 1703 2017 1921 1590 2130 1628 2200 1383	5 465
39 58	912 2399 1075 2514 947 2783 779 2823 766 3000 675 3268 483 3631 151	26
39 58	913 4004 -394 4155 -497 4253 -497 4498 -531 4665 -576 4870 -650 5041 -676	83
39 58	914 5269 -712 5492 -702 5622 -512 5756 -490 5969 -517 6423 -550 6727 -777	68
39 58	915 7321 -986 7730-1035 8057-1056 8472-1081 8966-1118 9548-1109 9879-1128	93
39 58	91610597-115111210-119111665-122911979-126112418-130713009-137113420-1408	29
39 58	91714047-149014618-155715081-160015720-167116191-172116733-177617553-1848	39
39 58	91818463-193419484-201420106-205521147-213721967-218722628-224023022-2263	31
39 58	91923743-230624613-235625544-2417	58
39 58	921821015 1030 23-1103 1654 2039 1829 1707 2133 1610 2225 1316	10
39 58	922 2425 1044 2779 876 3197 543 3714 -14 3889 -284 3987 -458 4233 -480	90 527
39 58	923 4566 -532 4909 -715 5314 -756 5555 -624 5834 -490 6197 -501 6628 -684	84
39 58	924 7015 -854 7532-1003 8081-1050 8566-1089 9098-1103	54
39 58	931821016 1640 42-2684 1166 2011 1689 2026 2232 1325 2515 972	2
39 58	932 2889 821 3288 430 3573 109 3743 -83 3862 -259 3957 -421 4229 -471	42
39 58	933 4558 -561 4855 -646 5230 -746 5443 -716 5662 -584 6032 -478 6509 -606	10
39 58	934 7212 -917 7959-1037 9105-110310064-112411131-118911982-125813561-1427	59
39 58	93514387-153215420-164216506-175517472-184318562-193519851-203821122-2123	21
39 58	93622499-222923877-231624534-234625694-243126839-247328215-255028991-2596	2
39 58	93729631-262829767-263030808-2684	5
39 58	941821017 1155 25-1152 1166 2011 1654 2039 1689 2026 1829 1707	23 302
39 58	942 2133 1610 2225 1316 2232 1325 2425 1044 2525 933 2773 881 3118 548	25
39 58	943 3439 157 3751 -311 4154 -601 4554 -438 4723 -386 5081 -506 5467 -583	65
39 58	944 6062 -529 6907 -823 7597-1010 8157-1066 8852-1097 9529-111310446-1152	13
39 58	951821019 1130 25-1110 1654 2039 1829 1707 2133 1610 2225 1316	9
39 58	952 2425 1044 2561 948 2871 835 2924 792 3245 422 3548 89 3763 -303	23
39 58	953 3914 -502 4110 -591 4293 -332 4550 -299 4852 -304 5159 -364 5766 -506	75
39 58	954 6250 -618 6632 -749 7162 -922 7671-1019 8187-1069 8619-1089 9186-1110	28
39 58	961821022 1250 23-1130 1654 2039 1829 1707 2133 1610 2225 1316	88
39 58	962 2425 1044 2522 923 2868 778 3133 505 3534 68 3696 -254 3943 -512	98
39 58	963 4124 -502 4449 -462 4971 -352 5158 -428 5693 -523 6194 -587 6989 -869	98 522
39 58	964 7730-1033 8400-1105 9058-1093 9058-1100 9886-1130	34
39 58	971821027 1430 35-1888 1580 1955 1643 2036 1715 2004 1890 1610	90
39 58	972 2021 1578 2137 1644 2216 1337 2437 1121 2694 935 2701 942 2988 719	47
39 58	973 3425 398 3931 -330 3993 -425 4374 -727 4856 -687 5080 -561 5520 -493	84
39 58	974 5858 -465 6317 -447 6726 -536 7175 -826 7599-1025 8142-1142 8666-1201	16
39 58	975 9212-1208 9898-120310678-120911446-122312404-128313372-136914568-1513	77

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Table B1. (Continued)

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Table B1. (Continued)

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(Sheet 7 of 61)

Table B1. (Continued)

39 58	1171830630	1210	34-2564	1588	1975	1705	2041	1914	1642	2130	1691	35				
39 58	1172	2191	1513	2395	1213	2536	1060	2803	866	3156	622	3678	28	4256	-221	94
39 58	1173	5068	-359	5618	-587	6268	-795	7017	-1069	7591	-1211	8288	-1377	8948	-1455	99
39 58	1174	9982	-142111074	-142312077	-141813156	-132914159	-134015743	-149517164	-1667							62
39 58	1175	18571	-184219621	-196920803	-208822065	-220723328	-229624526	-235925795	-2442							74
39 58	1176	26859	-250027883	-2564												31
39 58	1181830711	1645	34-2813	1690	2023	1926	1626	2126	1679	2190	1503	0				
39 58	1182	2392	1213	2485	1107	2777	889	3347	443	3828	-152	4294	-227	4771	-339	8 567
39 58	1183	5373	-585	6114	-802	6782	-1028	7346	-1149	8376	-1388	9259	-1452	10149	-1425	98
39 58	1184	11412	-142212787	-133614009	-134915644	-147017366	-169319150	-191220705	-2085							21
39 58	1185	21853	-217023553	-231025072	-239626414	-248527701	-254629241	-263030632	-2697							12
39 58	1186	31809	-275833062	-2813												97
39 58	1191830725	1123	30-2670D01	1592	1966	1707	2033	1920	1637	2128	1677	30				
39 58	1192	2190	1505	2447	1153	2534	1056	2951	745	3488	241	3816	-187	4378	-212	23
39 58	1193	4996	-481	5740	-727	6534	-968	7474	-1182	8636	-1429	9544	-1435	10770	-1410	54
39 58	1194	12004	-140113230	-133814725	-137616309	-154717744	-175319134	-191720350	-2040							74
39 58	1195	23085	-227124581	-236626020	-245428772	-259829995	-2670									69
39 58	1201830808	1315	30-2712	1710	2018	1819	1741	1957	1608	2125	1672	58	536			
39 58	1202	2355	1254	2590	1006	2906	780	3413	119	4029	-186	4726	-395	5384	-699	23
39 58	1203	6390	-964	7308	-1167	8306	-1380	9393	-1448	10696	-1418	12249	-1380	13636	-1339	22
39 58	1204	15167	-143416679	-161818225	-180519714	-198521127	-212422554	-223624040	-2342							71
39 58	1205	25449	-244027079	-252428432	-259629766	-265830966	-2712									46
39 58	1211830826	1130	30-2631	1710	2018	1819	1741	1957	1608	2125	1672	62				
39 58	1212	2355	1254	2502	1088	2951	658	3479	81	3905	-472	4450	-173	5241	-365	37
39 58	1213	6233	-787	7243	-1169	8058	-1284	8827	-1417	9735	-1433	10603	-1416	11684	-1409	71
39 58	1214	12927	-133313932	-136015472	-145717154	-166618729	-186020245	-203521725	-2166							19
39 58	1215	23475	-229724923	-239126514	-248328014	-256529220	-2631									12
39 58	1221830906	1445	35-2854	1379	1952	1693	2032	1904	1626	2123	1675	53	416			
39 58	1222	2303	1302	2451	1133	2720	917	2752	898	2927	703	3092	587	3725	-169	5
39 58	1223	4084	-171	5008	-392	5872	-730	6626	-1032	7458	-1200	8356	-1397	9345	-1404	5
39 58	1224	10377	-139811724	-140212960	-134414352	-136215993	-151917638	-173119092	-1921							26
39 58	1225	20554	-206621955	-218523565	-231825126	-241626518	-248727952	-256029461	-2645							45
39 58	1226	30759	-270732198	-277533764	-2854											81
39 58	1231830918	1315	32-2804	1379	1952	1693	2032	1904	1626	2123	1675	18				
39 58	1232	2303	1302	2493	1089	2896	645	3555	2	4286	-492	4829	-642	5433	-450	55
39 58	1233	6517	-733	7353	-1162	8254	-1547	9339	-1554	10644	-1406	11891	-1392	13232	-1344	23
39 58	1234	14436	-137716122	-154517574	-173119197	-192720796	-208622371	-222223840	-2332							97
39 58	1235	25304	-242026458	-247827778	-253929083	-261830237	-268931296	-273532476	-2804							74 429
39 58	1241831001	1235	51-2651	1549	1962	1692	2030	1926	1620	2119	1646	14				
39 58	1242	2202	1471	2369	1236	2494	1034	2774	706	3291	398	3618	79	3848	-254	64
39 58	1243	4105	-381	4362	-358	4557	-253	4934	-235	5218	-260	5412	-295	5707	-357	84
39 58	1244	6003	-439	6178	-499	6587	-617	6885	-755	7105	-868	7410	-1047	7601	-1289	53
39 58	1245	7889	-1466	8187	-1589	8762	-1631	9346	-1561	9702	-1506	10140	-1502	10572	-1482	28
39 58	1246	10983	-148811789	-146312440	-142813421	-136313951	-135414700	-138315780	-1492							39
39 58	1247	16319	-155817630	-174918840	-188720194	-203321735	-216523033	-226424285	-2352							2
39 58	1248	25453	-242426884	-250327970	-255929112	-261029878	-2651									6
39 58	1261831014	810	37-2401	1549	1962	1693	2030	1926	1620	2119	1646	69				
39 58	1262	2202	1471	2369	1236	2620	854	3092	536	3462	151	3863	-409	4293	-486	53 412

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Table B1. (Continued)

39	58	1263	4601	-519	5027	-519	5430	-346	6108	-434	6972	-804	7711	-1224	8088	-1501	90
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39	58	126514351	-135815254	-145216121	-156417042	-168618036	-181918915	-190919871	-2002								97
39	58	126620994	-210621850	-217323174	-227224228	-234425207	-2401										49
39	58	1271831024	1330	37	-2529		1549	1962	1693	2030	1926	1620	2119	1646			7
39	58	1272	2202	1471	2369	1236	2505	1049	2880	670	3249	327	3526	-1	3763	-334	70
39	58	1273	3962	-596	4427	-472	4710	-315	5209	-305	6020	-477	7070	-801	7921	-1165	6
39	58	1274	8882	-1673	9765	-148410977	-143711885	-140712867	-134214126	-135214841	-1420						14
39	58	127516101	-158117025	-170418091	-182719328	-195620578	-207421583	-215922721	-2241								26
39	58	127623549	-229824424	-235825374	-241226455	-247627440	-2529										57 454
39	58	1281831107	1500	29	-2533		1692	2024	1819	1749	1981	1619	2116	1692			94
39	58	1282	2202	1505	2330	1292	2479	1087	2923	631	3450	62	3916	-529	4292	-575	5
39	58	1283	5226	-548	5800	-266	6773	-613	7718	-1073	8817	-151010054	-148711266	-1401			42
39	58	128412552	-132014021	-137615416	-152016929	-171218520	-188919896	-202321433	-2169								21
39	58	128522988	-226724544	-237425938	-245027501	-2533											24
39	58	1291831121	910	29	-2530		1501	1965	1686	2027	1896	1634	2103	1684			55
39	58	1292	2194	1504	2508	1049	3017	551	3458	135	4866	-279	5942	-476	6780	-764	33
39	58	1293	7647	-1158	8433	-1471	9279	-152810023	-144410946	-141511837	-135912879	-1328					83
39	58	129413955	-138514988	-148416217	-163418755	-191619881	-202521101	-213322410	-2234								49
39	58	129523666	-231124951	-239626146	-246727182	-2530											36 442
39	58	1301831202	1035	28	-2430		1689	2028	1825	1739	2129	1702	2205	1487			34
39	58	1302	2532	1028	3388	250	3930	-290	4452	-252	5097	-334	6008	-587	6942	-867	23
39	58	1303	7739	-1192	8591	-1464	9438	-1543	9886	-145110975	-140712308	-133113521	-1355				13
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39	58	1322	2419	1188	2552	1018	2745	827	3154	440	3634	-43	4104	-584	4553	-671	76
39	58	1323	5314	-702	5911	-461	6425	-467	7137	-697	7724	-984	8280	-1199	9198	-1493	2
39	58	1324	9979	-144411317	-140512479	-133414229	-140915241	-152416150	-162217232	-1758							69
39	58	132518989	-194720679	-210522651	-225024220	-235925513	-2425										34 387
39	58	1331840105	950	22	-1558		1704	2021	1921	1622	2133	1724	2309	1319			57
39	58	1332	2432	1143	2592	978	3095	492	3616	31	4054	-491	4579	-638	5236	-480	72
39	58	1333	5939	-546	6877	-616	7832	-831	8721	-1192	9617	-139410490	-140211316	-1398			66
39	58	133412283	-134013367	-135714381	-142515531	-1558											80
39	58	1341840117	1245	41	-2454		1704	2021	1921	1622	2133	1724	2309	1319			24
39	58	1342	2680	743	3014	429	3373	48	3712	-263	3835	-505	3952	-621	4108	-724	38
39	58	1343	4495	-875	4838	-867	5196	-608	5807	-520	6458	-609	7036	-751	7744	-834	88
39	58	1344	8559	-1131	9516	-136210407	-145611257	-145112103	-137313087	-131613981	-1348						73
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39	58	134725639	-241726271	-2454													14
39	58	1361840202	1355	25	-2164		1709	2021	1963	1628	2134	1771	2247	1436			77
39	58	1362	2488	1079	2934	623	3720	-187	4329	-652	4939	-456	5810	-547	6554	-514	65
39	58	1363	7475	-861	8418	-1147	9395	-135310281	-144711333	-142112357	-133913311	-1334					96
39	58	136414265	-140415461	-153416714	-169918066	-185419476	-199020575	-208721664	-2164								53
39	58	1371840209	930	23	-1974CVB		1705	2028	1897	1651	2128	1773	2277	1384			80
39	58	1372	2493	1053	3074	445	3601	-135	4153	-563	4900	-624	5861	-530	6591	-509	94
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Table B1. (Continued)

39 58	137413541-135214621-144515712-156616754-169819198-1974	98
39 58	1381840216 1100 37-2489CVE 1709 2022 1824 1733 1927 1635 2051 1686	45 653
39 58	1382 2136 1774 2198 1541 2357 1249 2472 1102 2616 884 3007 623 3476 108	76
39 58	1383 3885 -305 4348 -544 5109 -736 5682 -941 6230 -905 6832 -586 7299 -644	45
39 58	1384 7986 -869 8670-1134 9320-131910024-144111004-146911956-139312809-1349	98
39 58	138514166-138515246-149916488-166417626-180818812-192620048-202821245-2123	67
39 58	138622452-221423555-228224626-235025649-241326872-2489	72
39 58	1391840224 1100 35-2506AB 1705 1980 1825 1696 1927 1635 2051 1686	8
39 58	1392 2136 1774 2569 953 2957 633 3524 22 3903 -404 4366 -646 4881 -748	32
39 58	1393 5407 -931 5874 -916 6358 -646 6889 -587 7516 -704 8245-1013 9009-1256	22
39 58	1394 9787-142010593-147311536-142812515-135613413-134814394-141715683-1568	89
39 58	139516944-173318004-185019123-196320346-206921567-216122746-224823859-2316	72 581
39 58	139624908-237526067-244526986-2506	99
39 58	1401840308 945 35-2464ASB3 1697 2028 1806 1783 1948 1640 2114 1784	81
39 58	1402 2223 1489 2502 1054 2966 509 3537 -55 4018 -591 4425 -735 4985 -830	42
39 58	1403 5559 -951 6076 -897 6570 -663 7307 -573 7999 -865 8607-1136 9217-1321	4
39 58	1404 9885-143510752-148611599-143412580-136113458-135814438-142415203-1507	42
39 58	140516434-166417582-180318743-192519828-202220962-211622142-219323290-2278	43
39 58	140624294-233725346-240226338-2464	19
39 58	1411840320 1330 41-2538 1654 2050 1725 2007 1855 1694 1960 1629	96
39 58	1412 2070 1711 2128 1765 2194 1560 2252 1428 2542 976 2782 743 3165 392	30
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39 58	1414 7057 -592 7776 -817 8431-1073 9141-1295 9819-144610511-143911290-1400	31
39 58	141512196-135713315-136114128-141915178-153516218-166217253-178118470-1892	35
39 58	141619861-202321113-212222132-218823130-226024062-232524980-238425799-2437	77
39 58	141726657-247927659-2538	15
39 58	1431840402 1500 29-1844 1712 2034 1892 1653 1982 1635 2123 1770	98
39 58	1432 2195 1576 2276 1385 2515 879 2923 458 3389 -5 3790 -499 4094 -754	78
39 58	1433 4452 -771 4920 -880 5390 -496 5781 -502 6384 -718 7212 -936 8037-1115	77
39 58	1434 8839-1300 9661-143510479-139311462-136212253-134112803-136213629-1412	12
39 58	143514541-148815621-162116664-173917766-1844	48
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39 58	1442 2195 1576 2438 1092 2788 771 3438 62 3930 -496 4506 -657 5123 -734	22
39 58	1443 5759 -819 6513 -795 7332 -731 8022 -961 8854-1282 9766-142410901-1378	14
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39 58	1451840413 940 39-2592CH300E 1712 2034 1892 1653 1982 1635 2123 1770	91
39 58	1452 2195 1576 2438 1092 2744 836 3229 171 3854 -398 4326 -645 4668 -733	9
39 58	1453 5209 -797 5626 -868 6100 -884 6525 -796 7032 -729 7565 -727 8147 -975	77
39 58	1454 8822-1222 9609-137910265-137510894-134611572-133512377-134213216-1393	90
39 58	145514123-145515045-155716282-169717425-180618553-191419849-202721002-2119	82
39 58	145622170-220423402-228824395-234825449-241126513-247227810-253628722-2592	92 560
39 58	1461840425 1400 28-2404CV.1E 1710 2023 1875 1664 2012 1651 2119 1776	81
39 58	1462 2200 1512 2350 1221 2594 797 3101 306 3571 -360 3952 -326 4646 -494	61
39 58	1463 5296 -717 5991 -850 6712 -615 7542 -870 8557-1197 9498-136510490-1354	48
39 58	146411717-132913266-140114678-152016019-168517414-182718748-193620151-2058	40
39 58	146521524-216122788-225325235-2404	56
39 58	1471840509 1315 30-2392AB 1710 2023 1875 1664 2012 1651 2119 1776	18

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Table B1. (Continued)

39 58	1472	2200	1512	2499	943	2768	711	3343	96	3848	-539	4259	-523	4677	-370	56
39 58	1473	5190	-596	5873	-822	6415	-568	7128	-721	7921	-968	9024	-12901	10034	-1344	11
39 58	147410955	-132511916	-132812999	-138014009	-145915297	-160116948	-176818648	-1919								87
39 58	147520176	-205021514	-215523061	-226024102	-232325078	-2392										76 534
39 58	1481840514	925	31	-2415CV185B4		1717	1987	1865	1656	2113	1734	2279	1357			94
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39 58	1483	5989	-806	6557	-586	7202	-738	8034	-983	8949	-1258	9406	-134310294	-1341		24
39 58	148411342	-133012601	-135013690	-141714833	-154116187	-167517210	-179318377	-1911								61
39 58	148519823	-201721060	-211822323	-221123408	-225824623	-234525692	-2415									44
39 58	1491840524	1045	35	-2544		1704	2034	1942	1636	2127	1769	2290	1352			91
39 58	1492	2585	824	2744	634	3228	201	3690	-259	4099	-446	4433	-330	4754	-529	98
39 58	1493	5206	-736	5697	-787	6212	-686	6800	-614	7221	-736	7648	-880	8222	-1083	39
39 58	1494	8952	-1243	9603	-130810435	-129811321	-130412269	-132013497	-141214567	-1520						46
39 58	149515615	-164616917	-177418252	-189319594	-200021019	-210522743	-220824130	-2326								38 554
39 58	149625413	-238626722	-249427848	-2544												64
39 58	1501840601	1115	30	-2490		1705	2028	1925	1639	2124	1754	2395	1143			2
39 58	1502	2587	795	2902	407	3431	-24	3870	-304	4503	-584	5168	-788	5801	-618	86
39 58	1503	6422	-529	7101	-719	7730	-959	8471	-1181	9165	-128910141	-130411126	-1312			13
39 58	150412249	-133513603	-142314817	-155616371	-172317704	-184419399	-198820872	-2112								53
39 58	150522234	-218823554	-226824767	-235025769	-240726833	-2490										18
39 58	1511840613	1125	24	-1856		1700	2023	1941	1627	2125	1760	2319	1296			4
39 58	1512	2516	930	2971	434	3479	-16	3945	-387	4327	-549	4907	-714	5450	-717	96
39 58	1513	5747	-401	6104	-489	6815	-718	7524	-895	8251	-1119	9107	-1278	9952	-1324	73
39 58	151410814	-129611698	-130913086	-139014335	-150615807	-166917737	-1856									45 454
39 58	1521840627	1215	33	-2436		1701	2015	1929	1626	2131	1762	2277	1368			86
39 58	1522	2554	866	2969	511	3574	-24	4139	-431	4557	-606	5023	-666	5517	-640	91
39 58	1523	5988	-497	6487	-524	7013	-811	7648	-985	8423	-1168	9257	-128710207	-1294		81
39 58	152411049	-129712157	-133613033	-138613719	-142914946	-156516083	-167517515	-1830								44
39 58	152518784	-194519889	-202521077	-209722474	-221823603	-227824935	-238625553	-2416								85
39 58	152626129	-2436														25
39 58	1531840709	905	30	-2451		1707	2022	1913	1634	2095	1726	2483	1000			90
39 58	1532	2510	944	2899	633	3356	291	3837	-189	4226	-511	4718	-611	5163	-730	39
39 58	1533	5641	-447	6352	-558	6966	-806	7926	-1084	8520	-1210	9337	-128410244	-1302		66
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39 58	1551840727	1250	51	-2517		1685	2041	1847	1722	2007	1658	2129	1740			38
39 58	1552	2240	1437	2650	705	2876	636	3174	480	3523	33	3960	-306	4188	-521	56
39 58	1553	4585	-597	4774	-332	5149	-380	5565	-550	6040	-634	6523	-760	6980	-832	11
39 58	1554	7529	-992	8069	-1120	8520	-1214	9027	-1282	9418	-1290	9864	-131010615	-1306		1
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39 58	155719136	-196519735	-201220780	-209721455	-214022363	-221022963	-224723692	-2298								33
39 58	155824719	-237625306	-241126150	-245726620	-249227261	-2517										41
39 58	1561840811	900	28	-2524		1703	2036	1908	1649	2124	1782	2288	1357			63 459
39 58	1562	2577	833	3076	647	3281	285	3941	-318	4332	-468	4757	-304	5482	-518	87
39 58	1563	6367	-740	7387	-975	8403	-1196	9272	-129810416	-130711906	-132313023	-1395				19
39 58	156414509	-152615983	-168817382	-181718755	-194120309	-206221594	-214123029	-2244								96
39 58	156524218	-232726062	-244527476	-2524												20

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Table B1. (Continued)

39 58 1571840830 1420 22-2046CVCHO	1703 2024 1905 1658 2117 1762 2214 1502	12
39 58 1572 2499 985 2647 711 3092 390 3565 -24 4299 -193 5239 -381 6065 -719		53
39 58 1573 7017 -908 8202-1176 9311-129210279-131811824-132212943-140514136-1486		18
39 58 157415607-164817296-181818550-192520100-2046		35
39 58 1581840906 1350 31-2467	1703 2024 1905 1658 2117 1762 2214 1502	48
39 58 1582 2499 985 2647 711 2930 598 2968 497 3208 251 3752 -85 4556 -340		31 419
39 58 1583 5427 -364 5890 -671 6550 -812 7344-1015 8053-1150 8802-1270 9813-1311		74
39 58 158410570-131811619-131712793-139813675-145614753-155915982-170217563-1843		41
39 58 158519111-197320468-207721677-215923257-228024928-238126153-2467		4
39 58 1591840910 800 29-2060	1688 2019 1819 1762 1928 1623 2077 1732	1
39 58 1592 2118 1748 2169 1548 2198 1525 2512 944 2714 696 2888 715 3072 340		92
39 58 1593 3281 142 3427 44 3968 -101 4619 -470 5238 -473 5988 -411 6446 -537		9
39 58 1594 7279 -941 8282-1198 9093-128410114-130511045-131212054-134813539-1458		13
39 58 159514413-151915774-166718875-196720221-2060		8
39 58 1601840920 1220 51-2633	1855 1710 1940 1631 2121 1771 2212 1524	76
39 58 1602 2343 1242 2492 987 2593 751 2797 640 3157 280 3501 -23 3824 -317		2 320
39 58 1603 4191 -355 4637 -549 5077 -704 5562 -768 5800 -810 5963 -700 6239 -724		27
39 58 1604 6595 -644 7045 -645 7369 -802 7919-1115 8558-1241 9321-128010130-1301		78
39 58 160511000-131411856-134812577-139213357-145614100-151614965-160215704-1679		41
39 58 160616390-174517198-181617868-187518508-192219345-199219984-204520795-2108		58
39 58 160721355-214921812-218622490-223223315-227924104-233624637-236825302-2405		20
39 58 160826202-246926777-249427674-254528398-258029403-2633		10
39 58 1611841002 1400 41-2378CV.160	1677 2025 1754 1925 1849 1703 1939 1637	32
39 58 1612 2017 1684 2110 1754 2187 1664 2208 1525 2342 1231 2479 1003 2514 966		76
39 58 1613 2653 821 2684 841 2878 731 3106 549 3627 -195 3936 -338 4649 -662		60
39 58 1614 5270 -818 5894 -614 6252 -400 6516 -405 7162 -617 7608 -887 8276-1164		75 477
39 58 1615 8996-1254 9642-128810463-129711404-132212450-139613495-147414395-1567		66
39 58 161615369-164616359-173517622-186118964-196419831-203821103-211522694-2231		0
39 58 161723772-231724738-2378		33
39 58 1631841016 1200 44-2305	1641 2050 1713 2015 1809 1763 1887 1645	15
39 58 1632 2110 1775 2161 1693 2198 1546 2230 1435 2230 1445 2265 1390 2331 1298		52
39 58 1633 2395 1204 2549 1011 2578 967 2819 684 3269 283 3651 -115 3792 -405		54
39 58 1634 4044 -535 4442 -724 4998 -875 5411 -911 5843 -924 6418 -882 6827 -744		59
39 58 1635 7134 -626 7602 -593 7978 -750 8573-1061 9517-128010436-133111559-1343		27
39 58 163612486-136913397-143014531-153915572-165316380-173017414-181418661-1943		93
39 58 163719637-202220933-212422189-221823222-227823752-2305		44 443
39 58 1651841029 1450 40-2742	1539 1979 1595 1949 1672 2055 1733 1981	11
39 58 1652 1882 1678 1975 1644 2128 1749 2177 1652 2209 1518 2521 991 2563 923		64
39 58 1653 2822 490 3402 -34 3793 -531 4181 -718 4678 -734 5175 -878 5716 -924		31
39 58 1654 6246-1019 6855-1058 7346 -830 7747 -731 8247 -852 9010-1036 9826-1207		71
39 58 165510837-127412287-134513377-144314764-159115995-170517458-186119525-2025		53
39 58 165621473-217323055-227424638-237425903-244327602-253428990-261230600-2687		50
39 58 165731726-2742		47
39 58 1671841127 1452 56-2551	1538 1968 1594 2001 1662 2033 1720 1973	25
39 58 1672 1856 1699 1985 1605 2115 1732 2172 1660 2229 1453 2555 928 2586 886		16
39 58 1673 2910 724 2961 677 3146 513 3385 309 3550 127 3763 -93 3856 -156		51 419
39 58 1674 4206 -477 4354 -514 4610 -533 4896 -594 5083 -662 5349 -708 5645 -654		62
39 58 1675 5927 -276 6261 -386 6603 -473 6918 -563 7486 -730 8120 -929 8675-1053		13

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Table B1. (Continued)

39 58	1676	9234-1135	9754-119410115-122210757-126711282-130311732-134012335-1391	94
39 58	1677	13018-144413711-151214212-155715225-166316336-175817296-185918162-1921	84	
39 58	1678	19292-200420413-209021441-217722402-224023345-229724225-234725076-2414	15	
39 58	1679	25870-244926595-248927864-2551	50	
39 58	1681	841213 1508 36-2787	1702 1824 1842 1742 1968 1641 2132 1777	15
39 58	1682	2246 1451 2533 982 2858 783 3161 507 3422 279 3812 -107 3972 -309	58	
39 58	1683	4069 -411 4253 -476 4600 -578 4971 -383 5572 -468 6181 -531 6764 -637	98	
39 58	1684	7758 -866 8631-103510166-120811527-130713018-143214261-155016003-1725	74 563	
39 58	1685	17675-187219060-198319742-203521281-214422297-221023712-230125408-2406	77	
39 58	1686	27110-249828608-257531427-271532938-2787	36	
39 62	418	10126 850 60-2220D012	0 1230 60 1290 120 1490 230 1750	23
39 62	42	330 1800 460 2010 1050 1990 1180 2180 1410 1930 1580 1930 1710 2120	97	
39 62	43	1770 2170 1850 2010 2000 1680 2110 1810 2250 1240 2430 930 2730 710	92	
39 62	44	2960 520 3010 430 3190 310 3430 -20 3890 -420 3990 -600 4110 -720	70	
39 62	45	4370 -840 4690 -940 5090 -970 5290-1040 5590-1100 5890-1070 5990-1000	55	
39 62	46	6190 -830 6390 -670 6690 -530 6890 -520 7090 -560 7490 -610 7890 -700	82	
39 62	47	7990 -780 8290 -890 8790-1040 9140-1130 9690-1230 9990-129010890-1370	18	
39 62	48	11340-140012290-147013190-152014190-157014890-160015990-164016690-1690	88 638	
39 62	49	17290-174018290-182019290-193019690-197020090-201020890-207022090-2170	4	
39 62	61	810210 900 60-2240D08	1180 2190 1290 1990 1410 1940 1540 1920	69
39 62	62	1600 1950 1670 2060 1770 2130 1870 1930 2020 1680 2090 1840 2170 1640	65	
39 62	63	2230 1280 2360 1000 2500 900 2570 870 2630 820 2720 730 2900 510	61	
39 62	64	3150 300 3450 60 3750 -200 3950 -500 4150 -740 4350 -820 4750 -880	22	
39 62	65	5050 -910 5450-1020 5650-1010 5950 -890 6050 -790 6250 -700 6450 -690	0	
39 62	66	6850 -710 7650 -720 7850 -760 8250 -840 8550 -920 8850-1000 9150-1090	14	
39 62	67	9650-120010050-127010450-132011250-140012250-147012850-151013450-1540	23	
39 62	68	1614050-157014850-161015850-164016250-167017050-172017850-180018450-1860	88	
39 62	69	188850-191019450-195020050-202020850-209021450-214022050-219022650-2240	41 387	
39 62	81	81810224 1540 48-2150D017	1180 2190 1430 1930 1590 1930 1720 2100	71
39 62	82	1820 2090 2010 1670 2110 1840 2240 1230 2410 810 2510 660 2620 530	93	
39 62	83	2920 260 3220 -40 3520 -260 4520 -830 4720 -980 5120-1050 5620-1110	46	
39 62	84	6020-1120 6420-1060 7020-1060 7320 -940 7620 -790 8020 -770 8820 -890	92	
39 62	85	9220-1020 9820-115010020-122010420-127010820-132011420-137011820-1450	75	
39 62	86	12820-149013320-153014020-155015220-159015820-164016620-169017220-1740	91	
39 62	87	17720-179018420-184019020-189019420-194019820-199020420-204020820-2080	85	
39 62	88	21220-212021820-2150	28	
39 62	101	81010310 1440 42-2020D021	1180 2180 1420 1940 1580 1920 1780 2130	22
39 62	102	1900 1860 2000 1670 2100 1860 2240 1130 2500 810 2720 610 3020 360	31 634	
39 62	103	3230 260 3430 10 4030 -480 4630 -930 4830-1030 5230-1100 5830-1180	61	
39 62	104	6230-1180 6830-1130 7430-1140 7830-1070 8230 -930 8430 -830 8830 -780	76	
39 62	105	9430 -750 9830 -93010630-108010830-128011630-136012630-147013430-1500	30	
39 62	106	14230-153014630-157015430-160016030-167017030-173017830-182018630-1880	99	
39 62	107	19230-194019830-197020030-2020	58	
39 62	121	81010325 1555 43-2230D012	1180 2190 1330 1960 1580 1910 1750 2100	26
39 62	122	1850 1980 2010 1680 2110 1790 2240 1160 2490 950 2730 820 2920 700	94	
39 62	123	3230 420 3790 -40 4190 -460 4790 -680 5190 -830 5590 -860 5990-1000	3	
39 62	124	6390-1080 6990-1140 7790-1110 7990 -890 8990 -770 9390 -720 9590 -800	8	
39 62	125	10390-100010590-112010990-125011590-135012190-142012590-147013590-1500	51 506	

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Table B1. (Continued)

39 62	12614590-155015990-164016590-168017190-176017990-183019190-191019790-1980	75
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39 62	141810406 1030 43-2170D012 1180 2180 1430 1940 1580 1920 1790 2120	98
39 62	142 2000 1680 2120 1790 2250 1140 2460 960 2640 870 2740 810 3350 190	53
39 62	143 3550 -80 3950 -370 4250 -610 4650 -730 4850 -770 5250 -810 5650 -910	77
39 62	144 6250 -970 6450-1030 7050-1070 7650-1050 8050 -880 8650 -670 9050 -840	93
39 62	145 9650 -970 9850-108010650-124011250-130012050-140013050-147013650-1510	62
39 62	14614450-156015050-160015850-165016650-172017450-177018050-184018650-1900	21
39 62	14719650-197020250-204021050-210021850-2170	49
39 62	151810415 1245 38-2180D010 1180 2190 1450 1920 1730 2090 1790 2110	32 576
39 62	152 1910 1850 2000 1680 2090 1860 2220 1200 2440 970 2650 840 2940 530	85
39 62	153 3270 270 3570 -20 3970 -280 4170 -470 4670 -750 5070 -870 5570 -980	23
39 62	154 6070-1040 7070-1170 7670 -870 8270 -790 8470 -740 9470 -89010470-1200	82
39 62	15511270-131012170-143012870-147014470-155015270-163015870-168016670-1760	46
39 62	15618070-187018670-194019270-200019870-204020470-208021670-2180	37
39 62	171810427 1400 38-2240D03 1180 2190 1420 1930 1640 2070 1740 2120	32
39 62	172 1970 1680 2070 1860 2210 1200 2440 960 2630 820 2780 630 2900 520	43
39 62	173 3300 200 3700 -10 3800 -220 4200 -540 4500 -720 4800 -810 5200 -910	85
39 62	174 5600 -990 6400-1030 7500-1000 7800 -730 8400 -66010400-120011600-1350	12
39 62	17512200-140013200-147014200-153014800-157015600-162016200-168017200-1750	36 481
39 62	17618200-186019000-194019800-202021600-216022200-221022600-2240	4
39 62	191810511 1300 55-2140GVE D06 1180 2180 1420 1940 1700 2090 1770 2120	66
39 62	192 1840 2000 1990 1670 2090 1850 2220 1210 2500 930 2570 870 2770 740	94
39 62	193 2900 540 3130 460 3180 410 3380 190 3580 90 3740 -60 3880 -280	22
39 62	194 4080 -370 4230 -490 4280 -540 4380 -610 4580 -740 4780 -800 4980 -860	16
39 62	195 5180 -960 5280-1020 5480-1050 5880-1120 6580-1070 6980-1030 7380 -940	46
39 62	196 7380 -860 7480 -830 7480 -710 7580 -620 7880 -540 8580 -670 9180 -820	62
39 62	197 9380 -900 9580 -970 9780-103010030-112010380-119010780-125011230-1320	30
39 62	19812280-141013230-147014730-156015580-164016580-171017680-181018880-1920	67
39 62	19919780-200021580-2140	95 502
39 62	211810526 1400 43-2200D05 1700 2080 1780 2130 1860 1940 1910 1850	46
39 62	212 2020 1680 2090 1850 2220 1230 2380 1020 2500 810 2740 750 2940 660	4
39 62	213 3090 530 3290 410 3580 220 3660 110 3840 -90 4340 -360 4440 -630	77
39 62	214 4560 -870 4840 -980 5140-1070 5760-1130 6240-1100 6540-1070 6740 -900	78
39 62	215 7040 -550 7390 -470 8040 -590 8640 -810 9090 -960 9540-108010240-1200	78
39 62	21610740-127011540-135012840-144014540-155015540-163016940-175018140-1850	2
39 62	21719440-197020140-202021540-214022340-2200	60
39 62	231810609 1245 53-2250CVS0.1 1190 2190 1270 2030 1450 1940 1700 2090	88
39 62	232 1800 2110 1870 1920 2010 1790 2090 1860 2220 1250 2510 900 2670 760	16
39 62	233 2870 650 3080 380 3080 320 3180 260 3280 190 3330 160 3480 50	25 474
39 62	234 3590 -90 3860 -450 4010 -540 4250 -630 4420 -740 4530 -850 4720 -970	66
39 62	235 4930-1050 5300-1170 5760-1190 5940-1180 6130-1150 6320-1110 6550 -920	21
39 62	236 6680 -770 7000 -570 7590 -650 8170 -800 8750 -940 9920-120010690-1300	31
39 62	23711610-139012560-144013560-152014320-156014870-160015690-166016550-1740	75
39 62	23817390-180018130-187019020-192019830-199021390-211022460-219023250-2250	24
39 62	251810622 1300 60-3060DSB5 CHS1.0 1700 2070 2000 1680 2100 1830 2230 1200	32
39 62	252 2380 1020 2500 910 2660 790 2790 630 2990 400 3520 -70 3670 -170	14
39 62	253 3990 -490 4290 -710 4690 -940 4950-1040 5140-1110 5320-1150 5580-1170	99

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Table B1. (Continued)

39 62	254 6010-1120 6140-1100 6340 -950 6460 -770 6680 -590 6910 -580 7220 -640	79
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39 62	25610620-130011050-134011560-137011990-140012580-143013210-148014120-1530	51
39 62	25715030-160015890-167015890-167017390-180018270-187019600-197020740-2070	49
39 62	25821860-215023080-223024560-233025760-241027130-249028290-257029200-2620	75
39 62	25930190-266031240-273032330-278033680-286034630-291036120-300037120-3060	71
39 62	271810701 1200 59-2360DB1 08 1690 2070 1760 2140 1840 2010 1940 1750	44
39 62	272 2000 1670 2060 1770 2100 1850 2160 1700 2230 1210 2340 1080 2500 910	95
39 62	273 2890 560 3100 410 3550 10 3740 -240 3780 -320 4100 -460 4270 -660	83
39 62	274 4570 -840 4790 -960 5040-1090 5260-1130 5680-1170 5870-1150 6000-1070	70
39 62	275 6260 -800 6390 -800 6590 -710 6790 -690 7180 -690 7480 -670 7800 -680	1
39 62	276 8090 -730 8490 -830 8790 -910 9100-1010 9560-111010120-122010620-1280	68 607
39 62	27711000-131011480-136012310-140013050-145013500-147014140-152014970-1580	3
39 62	27815920-166016550-171017260-177017870-182019110-192019790-197020560-2030	95
39 62	27921350-209022390-217023080-222023830-228024400-231025250-2360	23
39 62	291810717 1200 46-3210 1580 1910 1770 2150 1990 1690 2110 1850	51
39 62	292 2170 1660 2240 1220 2580 830 2760 690 2910 580 3090 330 3210 190	8
39 62	293 3470 -80 3830 -470 4110 -600 4460 -790 4800-1020 5260-1160 5770-1100	26
39 62	294 6310 -840 6890 -710 7450 -640 7940 -730 9310-1090 9970-119010820-1310	57
39 62	29512410-141013790-150015340-161016980-175018490-187019820-198021340-2100	80
39 62	29622850-220024310-230025500-238027050-247028440-255029790-264030940-2700	7
39 62	29732300-278033780-286034880-292035970-298037170-306038560-314039890-3210	40 390
39 62	311810727 1100 60-2990DB5 05 1450 1920 1590 1910 1700 2070 1780 2130	41
39 62	312 1860 1950 1950 1740 2050 1710 2110 1800 2170 1690 2220 1230 2420 980	81
39 62	313 2500 920 2690 760 2790 630 2960 450 3260 120 3510 -150 3820 -390	22
39 62	314 4040 -560 4310 -760 4610 -860 4920-1050 5250-1130 5570-1110 5830-1030	78
39 62	315 6170 -890 6500 -750 6720 -650 7020 -610 7320 -670 7600 -730 7800 -780	91
39 62	316 8490 -910 8870 -990 9150-1070 9500-1130 9810-118010200-125010930-1320	77
39 62	31711750-137012530-143013280-146014060-151014770-157016090-168017380-1790	51
39 62	31818610-188020320-201021820-213023210-222024510-231025820-241027190-2490	86
39 62	31928410-255029660-264030980-270032290-277033560-285034950-293036100-2990	38
39 62	321810804 1200 60-2340DB12 1550 1910 1700 2060 1960 1690 2010 1670	6 571
39 62	322 2090 1820 2150 1650 2210 1220 2460 900 2530 890 2650 770 2690 620	95
39 62	323 2770 640 2870 500 2990 420 3050 410 3330 170 3530 -30 3850 -370	10
39 62	324 4010 -440 4250 -590 4470 -750 4780 -930 4930-1010 5230-1090 5420-1100	75
39 62	325 5710-1030 5860 -970 6010 -890 6210 -780 6470 -620 6770 -560 7200 -630	22
39 62	326 7460 -690 7920 -790 8150 -850 8630 -950 8970-1030 9440-1130 9800-1190	74
39 62	32710440-128011400-134012140-139012580-143013130-146014070-152014560-1540	21
39 62	32815100-164015710-164016320-169016990-175017750-182018430-187019300-1940	52
39 62	32919840-199020430-203021000-208022230-216023140-222023930-228024930-2340	46
39 62	341810818 1400 55-3020 1640 2000 1710 2090 2000 1680 2140 1750	36
39 62	342 2290 1120 2500 920 2690 770 2710 580 2950 400 3240 180 3330 100	13 444
39 62	343 3330 90 3530 -80 3650 -170 3840 -320 4100 -530 4390 -710 4740-1000	65
39 62	344 5160-1030 5530-1000 5970 -790 6110 -620 6330 -540 6720 -590 6940 -640	44
39 62	345 7320 -710 7720 -770 8120 -830 8490 -920 8990-1030 9420-1120 9880-1200	96
39 62	34610310-126011290-133012200-138013160-144014050-151015130-159016480-1700	47
39 62	34717760-181018950-189020140-200021510-210022790-218024070-228025240-2350	81
39 62	34826670-244028050-251029400-260030670-267031720-272033060-281034380-2880	56

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Table B1. (Continued)

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Table B1. (Continued)

39 62	444 5480 -780 5770 -820 6060 -820 6420 -720 6780 -650 7190 -590 7620 -600	41
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39 62	44613100-147014110-156015020-162015950-169017190-180018510-191019590-1980	24
39 62	44720870-209022150-218023520-226023900-228023930-229025080-236026380-2450	23
39 62	44827780-251029080-260030480-267031860-275032950-280034330-287035450-2950	76
39 62	461811016 1700 44-2420 1200 2130 1640 1950 1720 2060 1990 1700	23 430
39 62	462 2140 1740 2230 1250 2400 980 2940 500 3350 110 3830 -170 4170 -390	43
39 62	463 4590 -540 5010 -720 5450 -780 5910 -830 6380 -900 6700 -940 7040 -960	59
39 62	464 7450-1000 7740-1060 8060 -930 8420 -970 8750 -840 9470 -78010150 -980	6
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39 62	46616830-178016890-178017780-185018950-195020220-204020670-209021640-2140	6
39 62	46722290-219023580-228024910-236025500-239025990-2420	35
39 62	491811026 1530 46-2840 1720 2080 1870 1930 2020 1700 2110 1850	34
39 62	492 2190 1580 2230 1280 2430 960 2710 560 2810 440 3300 150 3690 -100	77
39 62	493 4030 -350 4390 -490 4780 -760 5180 -950 5460-1000 5780-1050 6120 -980	38
39 62	494 6540-1060 6860-1010 7280 -960 7660 -950 8010 -910 8260 -870 8690 -770	9 335
39 62	495 9150 -730 9500 -82010240-104010930-120011560-131012330-142013390-1500	36
39 62	49614650-160015530-166017470-183019420-199020960-209022650-220023900-2280	54
39 62	49725590-240027160-246028590-258029980-264031160-270032460-278033620-2840	84
39 62	501811104 1500 41-2980 1720 2080 1920 1830 2030 1690 2100 1860	19
39 62	502 2190 1580 2230 1270 2510 810 2920 470 3000 410 3390 180 3770 -110	22
39 62	503 4030 -320 4400 -480 4730 -830 4940-1000 5180 -980 5620-1020 6040-1010	95
39 62	504 6440-1090 7100-1040 7810-1050 8410 -990 9130 -92010020 -80011130-1060	4
39 62	50512370-133013540-150014970-163016550-177018540-193020050-205021490-2140	91
39 62	50623190-225024670-234026770-246028520-256030110-266031380-272032540-2800	11
39 62	50733940-285035730-2980	60 476
39 62	521811117 1415 50-2730 1510 1910 1720 2080 1790 2110 1880 1920	36
39 62	522 2010 1670 2100 1870 2170 1660 2180 1240 2340 990 2510 830 2520 840	93
39 62	523 2810 670 3100 500 3500 200 3790 -220 4030 -280 4520 -520 4800 -740	70
39 62	524 5050 -990 5050 -990 5280-1070 5530-1120 5870-1180 6260-1250 6710-1350	65
39 62	525 7050-1310 7480-1280 8090-1180 8730-1080 9370-107010020 -95010720 -870	55
39 62	52611600 -98012550-121013400-138013940-145014640-154015550-163016550-1740	50
39 62	52718240-188019800-201021300-212022640-221023850-230025170-238026520-2460	99
39 62	52827540-252028830-259030310-266031530-2730	36
39 62	551811130 1200 43-2690 1720 2090 1800 2120 1920 1860 2010 1680	36
39 62	552 2110 1880 2170 1670 2200 1210 2380 970 2560 810 2810 650 2960 560	63 603
39 62	553 3260 230 3830 -110 4370 -250 4800 -560 4990 -860 5270-1070 5700-1180	1
39 62	554 6380-1140 7080-1240 7690-1190 8310-1160 8900-1170 9470-116010150-1030	41
39 62	55510840 -87011360 -88012230-104012990-121014010-140015270-158016600-1740	12
39 62	55618110-189019510-200020750-209022200-218023460-227024720-234025910-2420	5
39 62	55727040-249028130-254029160-262030340-2690	64
39 62	571811216 1100 43-2696 1717 2070 1811 2083 2012 1672 2106 1846	50
39 62	572 2175 1633 2196 1185 2455 898 2732 781 2977 700 3209 560 3607 334	12
39 62	573 3917 -10 4140 -339 4352 -399 4698 -551 5022 -737 5401 -965 5823-1094	44
39 62	574 6513-1189 6947-1189 7471-1171 8037-1171 8702-1207 9231-119410194-1014	43
39 62	57511062 -89411860-103011958-103013136-125114061-141415147-158316348-1717	32 304
39 62	57617459-182918865-195720428-207921959-217123350-226024629-234625876-2422	63
39 62	57727508-252328703-259429947-265030944-2696	58

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Table B1. (Continued)

39	62	581820105	1300	46-2812	1586	1907	1704	2060	1838	2027	1905	1852	86				
39	62	582	1974	1726	2057	1744	2116	1848	2163	1715	2189	1236	2329	1018	2476	887	31
39	62	583	2494	855	2709	801	3063	613	3518	256	3913	-38	4301	-385	4736	-501	56
39	62	584	5008	-644	5442	-882	5831	-1028	6403	-1132	6996	-1161	7910	-1189	8588	-1231	57
39	62	585	9153	-121010007	-109110773	-104311356	-106012066	-111912674	-116713522	-1286							12
39	62	58614295	-139915306	-153416278	-167217711	-184319087	-196120732	-209022500	-2208								62
39	62	58724125	-230925686	-240027155	-249328551	-258730009	-265731582	-274033044	-2812								85
39	62	591820120	59	49-2698	1700	2039	1792	2057	1954	1693	1999	1649					30 540
39	62	592	2057	1722	2095	1817	2148	1684	2186	1151	2361	914	2562	768	2772	729	1
39	62	593	3004	532	3292	378	3725	108	4149	-191	4606	-356	5003	-600	5333	-818	20
39	62	594	5700	-991	6218	-1145	6826	-1189	7567	-1188	8114	-1248	8707	-1208	9363	-1146	72
39	62	595	9969	-106510735	-104411373	-106411883	-109112419	-116212947	-122413515	-1288							10
39	62	59614090	-137615015	-150115861	-162816731	-172717864	-187319000	-196820173	-2061								22
39	62	59721401	-212922605	-221723571	-227424563	-235725834	-243026770	-247328044	-2551								3
39	62	59828941	-259230014	-264931009	-2698												15
39	62	611820128	1210	46-2893	1717	2084	1824	2058	1995	1691	2104	1731					78
39	62	612	2162	1691	2192	1204	2437	920	2658	814	2897	669	3135	307	3654	208	14
39	62	613	3991	-39	4605	-367	5013	-532	5514	-817	6025	-985	6526	-1069	6986	-1107	93 328
39	62	614	7669	-1150	8277	-1171	8865	-1176	9360	-116510063	-114310713	-108411325	-1056				79
39	62	61511919	-108612449	-114213046	-121713923	-133614740	-146315636	-159416734	-1735								79
39	62	61617965	-187519117	-197020508	-209021698	-216522885	-223824054	-231225294	-2402								83
39	62	61726595	-247028106	-255429492	-263830829	-270631925	-276532985	-283234130	-2893								24
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39	62	622	2114	1851	2161	1725	2209	1178	2500	879	2753	797	2829	746	3064	553	63
39	62	623	3531	370	3930	96	4157	-264	4414	-318	4741	-444	5159	-582	5574	-797	94
39	62	624	6007	-1043	6502	-1079	7040	-1122	7509	-1140	8113	-1162	8721	-1160	9415	-1131	35
39	62	62510256	-107910971	-104611764	-109312536	-118013356	-127914505	-143715578	-1584								33
39	62	62616669	-172417604	-182518701	-194319988	-204321329	-213322628	-221323843	-2288								77 611
39	62	62725052	-237326279	-244527488	-251728614	-258329568	-263130687	-268931940	-2756								97
39	62	62833161	-2825														50
39	62	631820216	1430	40-2711	1721	2088	1817	2101	2008	1682	2102	1864					36
39	62	632	2171	1688	2210	1179	2402	952	2477	883	2751	785	3012	548	3497	347	50
39	62	633	3954	125	4312	-374	4579	-366	4938	-538	5276	-681	5846	-918	6448	-1065	48
39	62	634	7026	-1112	7641	-1148	8259	-1166	8942	-1148	9910	-107510859	-104011795	-1089			28
39	62	63512902	-123114195	-140615626	-159317108	-177018434	-189619973	-202321375	-2129								39
39	62	63622741	-222223983	-230025221	-238126577	-244327889	-251129191	-260330362	-2647								7
39	62	63731492	-2711														4
39	62	651820302	1045	47-2793	1719	2088	1801	2099	2003	1691	2105	1832					75 434
39	62	652	2167	1690	2192	1221	2413	967	2613	840	2902	612	3125	317	3493	124	64
39	62	653	3875	6	4293	-19	4679	-140	5025	-315	5413	-488	5789	-647	6183	-878	45
39	62	654	6605	-1035	7237	-1140	7886	-1178	8545	-1208	9129	-1198	9736	-118610338	-1149		53
39	62	65510957	-111211564	-110412042	-111613077	-120613886	-132614682	-144715664	-1593								33
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39	62	65725377	-238126466	-244127667	-251028766	-257629920	-263031081	-270732195	-2761								87
39	62	65833154	-2793														83
39	62	671820317	1435	42-2793D06	1575	1930	1682	2067	1778	2132	1849	2160					96
39	62	672	1990	1697	2094	1859	2150	1725	2188	1234	2300	1049	2413	957	2822	613	93
39	62	673	3269	365	3696	105	4212	-112	4712	-248	5210	-457	5743	-721	6382	-1028	54 660

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Table B1. (Continued)

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39 62	692 2097 1828 2155 1733 2206 1206 2396 965 2473 935 2629 828 3060 502	17
39 62	693 3576 182 4077 -50 4643 -348 5099 -406 5620 -679 6109 -977 6685-1106	75
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39 62	69729546-260030913-268132025-2741	36
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39 62	712 2012 1694 2102 1841 2155 1731 2187 1260 2381 954 2441 935 2770 680	85
39 62	713 3243 394 3815 194 4346 -164 4821 -406 5336 -618 5911 -942 6508-1103	82
39 62	714 7264-1146 7946-1168 8641-1165 9271-1139 9947-111810652-109911277-1099	7
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39 62	732 2105 1856 2160 1716 2195 1221 2400 955 2472 903 2990 401 3515 296	87
39 62	733 4050 -140 4443 -288 4929 -528 5312 -646 5805 -876 6550-1095 7276-1123	91 575
39 62	734 7934-1142 8638-1147 9275-112710010-110210950-109511841-116412975-1286	32
39 62	73514343-145915549-161016835-175118580-190819811-202119812-202321433-2139	58
39 62	73623060-224924656-235626118-243527566-252429295-262130777-269631885-2759	12
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39 62	742 2101 1865 2152 1745 2191 1224 2415 955 2548 854 2690 741 3268 478	10
39 62	743 3793 31 4164 -511 4659 -594 5128 -653 5615 -585 6054 -712 6658-1001	86
39 62	744 7339-1110 8036-1141 8642-1122 9165-1100 9938-107210560-107611572-1157	87
39 62	74512526-126414039-144515418-160816767-175118259-188119754-200421249-2125	18
39 62	74622756-223124217-231525588-239627095-247028444-255929709-263031143-2713	51
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39 62	751820602 75 44-2782 1573 1905 1661 2055 1793 2116 1883 1896	12
39 62	752 2010 1676 2091 1871 2147 1741 2204 1200 2463 922 2472 908 2644 786	66
39 62	753 2987 701 3402 340 3800 -15 4125 -148 4625 -332 5124 -549 5647 -737	76
39 62	754 6247 -896 6950-1082 7535-1130 8179-1134 9004-110910086-106110859-1108	75
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39 62	75620068-203221328-212722418-221123702-229224874-237226045-243527165-2482	28
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39 62	762 2014 1681 2087 1861 2150 1738 2173 1353 2313 1028 2491 904 2498 897	74
39 62	763 2893 720 3312 327 3854 -47 4408 -152 4973 -353 5562 -582 6306 -915	10 463
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39 62	76733128-2820 1580 1916 1698 2075 1804 2110 2001 1689	33
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39 62	782 2096 1801 2150 1755 2202 1205 2411 951 2546 874 2707 799 2940 672	85
39 62	783 3416 424 3831 15 4283 -235 4855 -370 5395 -599 5888 -787 6533-1011	48
39 62	784 7214-1091 8018-1098 8482-1072 9236-1046 9920-106710539-112411452-1188	40

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Table B1. (Continued)

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39 62	78731496-2725	16
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39 62	792 2103 1796 2154 1714 2204 1189 2486 901 2572 852 3365 518 3887 -114	38
39 62	793 4252 -172 4938 -432 5574 -656 6139 -893 6738-1059 7415-1102 8161-1088	10
39 62	794 8717-1062 9493-106110306-109911096-116911798-123112554-130613723-1448	36
39 62	79515054-158316844-175718424-191420074-204721638-217422969-224324592-2351	5
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39 62	811820726 1230 36-2801	83
39 62	812 2158 1694 2200 1214 2406 938 2446 918 3039 560 3638 167 4158 -165	46
39 62	813 4776 -386 5317 -657 5992 -905 6727-1044 7349-1100 7974-1086 8627-1094	51 404
39 62	814 9470-104910269-109711070-118212021-125413229-139314648-154316498-1743	85
39 62	81518092-188219944-203921374-213523016-224224508-234826220-244927856-2528	12
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39 62	831820810 1100 40-2790	15
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39 62	833 3789 -4 4161 -136 4538 -329 5133 -644 6125 -926 6702-1063 7441-1109	55
39 62	834 8184-1090 8861-1061 9633-107610358-111411187-118211883-124112480-1309	25
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39 62	83732464-2790	52 463
39 62	841820824 1340 37-2745	88
39 62	842 2104 1828 2159 1692 2217 1165 2494 887 2552 852 3254 619 3602 139	15
39 62	843 4256 -197 4911 -524 5463 -770 6110 -927 6996-1082 7775-1099 8665-1067	13
39 62	844 9399-105910101-109310866-115511631-122712566-132413546-143214867-1588	22
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39 62	84626529-246327670-251629062-259730350-267431684-2745	97
39 62	851820901 1600 40-2848	46
39 62	852 2153 1697 2198 1198 2453 924 2535 870 2905 705 3405 240 3704 -7	74
39 62	853 4134 -112 4757 -361 5336 -636 5966 -915 6695-1059 7491-1089 8205-1081	9
39 62	854 8942-1062 9628-107510223-112110849-115311539-122412376-129213167-1391	62 511
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39 62	872 2249 1113 2490 890 2501 887 2864 723 3379 303 3927 -148 4284 -194	57
39 62	873 4792 -313 5365 -520 5848 -770 6551-1027 7406-1084 7994-1069 8626-1061	31
39 62	874 9402-107810362-113711484-123512500-133113773-147115334-163716703-1768	50
39 62	87518214-190020066-205521568-217422977-225124470-235425860-242927420-2515	84
39 62	87628971-260329869-264931639-275432553-279433116-2837	25
39 62	891821007 1505 34-2069	89 586
39 62	892 1995 1677 2094 1868 2148 1747 2165 1380 2165 1615 2223 1159 2441 934	49
39 62	893 2598 900 2907 935 3207 500 3470 132 3700 -284 3784 -379 4111 -218	49
39 62	894 4614 -303 5152 -464 5694 -624 6432 -886 7163-1018 7994-1033 8791-1061	17
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39 62	901821013 1110 24-1131 A08	86

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Table B1. (Continued)

39	62	902	2305	1110	2356	1051	2699	766	2776	769	3177	437	3736	-158	4078	-449	11
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39	62	914	5032	-611	5197	-645	5473	-461	5650	-477	5873	-486	5974	-498	6218	-548	55
39	62	915	6534	-710	6761	-808	6974	-689	7356	-982	7540	-1020	8023	-1052	8290	-1065	86
39	62	916	8698	-1096	9076	-1105	9377	-1114	9854	-113010278	-114510965	-118211378	-1211				13
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39	62	923	4403	-539	4764	-643	5004	-554	5241	-442	5464	-436	5804	-499	6280	-660	39
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39	62	92616051	-171116603	-176917657	-186518337	-192119271	-199820250	-207321307	-2144								86
39	62	92722061	-219023144	-226724268	-234024787	-236625331	-240626154	-244926833	-2480								40
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39	62	932	2148	1747	2165	1615	2223	1159	2441	934	2687	835	2890	761	3147	566	57
39	62	933	3385	269	3749	-279	3916	-512	4148	-510	4503	-577	4910	-563	5167	-490	28
39	62	934	5441	-473	5817	-480	6129	-601	6319	-689	7063	-915	8190	-1062	9392	-1105	10 396
39	62	93510414	-114711382	-121412165	-129212936	-137814210	-150815364	-164416051	-1711								94
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39	62	942	2148	1752	2201	1232	2212	1203	2225	1183	2439	1023	2687	835	2890	761	20
39	62	943	3147	566	3385	269	3746	-300	3900	-398	4136	-465	4370	-499	4678	-525	40
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39	62	964	8293	-1107	9036	-1125	9520	-111210463	-1177								35
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39	62	972	2141	1751	2171	1315	2380	1122	2545	1047	2576	1010	2737	881	2744	874	28
39	62	973	3070	562	3419	204	3442	197	3949	-570	4268	-739	4549	-704	4873	-549	63
39	62	974	5021	-458	5260	-453	5575	-429	5924	-425	6042	-427	6532	-503	7016	-796	53
39	62	975	7520	-1019	7836	-1095	7915	-1100	8432	-1170	9145	-1203	9628	-120910134	-1195		92

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Table B1. (Continued)

39 62	97610667-119710938-119311537-122412040-124312919-132713771-141913942-1443	26
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39 62	97818033-187718795-195919023-196419875-2048	16
39 62	991821108 1550 43-2804 1660 2040 1809 2093 2015 1675 2100 1851	29
39 62	992 2158 1694 2200 1214 2574 1011 2884 765 3279 334 3777 -311 4136 -287	54
39 62	993 4661 -312 5091 -435 5655 -483 6322 -751 7048 -940 7804-1102 8423-1175	20 427
39 62	994 9050-1192 9745-119310597-119111328-120912095-126813003-133813721-1430	16
39 62	99514665-155015641-165416791-176817969-187719099-197119469-200820530-2101	6
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39 62	99730183-266531210-273032310-277732948-2804	94
39 62	1011821206 1430 41-2593D06 1640 2016 1786 2133 1996 1699 2100 1838	80
39 62	1012 2148 1715 2173 1321 2462 1091 2565 1032 2825 886 3197 447 3648 -45	90
39 62	1013 3979 -491 4251 -631 4749 -705 5301 -702 6035 -664 6337 -538 7010 -698	8
39 62	1014 7773-1017 8869-1240 9861-124510883-120512022-121713301-134013807-1408	50
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39 62	1022 2167 1450 2490 959 2925 611 3388 154 3722 -174 4169 -683 4731 -767	83
39 62	1023 5135 -754 5654 -707 6146 -625 7000 -677 7420 -827 7863-1099 8313-1482	4
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39 62	1031821222 1300 46-2651 1591 1930 1727 2103 1807 2126 1983 1724	61
39 62	1032 2113 1844 2176 1366 2378 1097 2503 954 2620 880 2834 758 2962 670	3
39 62	1033 3314 355 3762 -424 4033 -560 4299 -500 4581 -269 4819 -281 5151 -289	75 550
39 62	1034 5618 -406 6265 -578 6988 -808 7566-1028 8221-1233 8999-1362 9844-1374	39
39 62	103510608-131511603-122512479-122313380-129514404-142615494-156816300-1673	36
39 62	103616831-173017672-182318636-191619704-202620899-211822064-219822998-2265	74
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39 62	1051830113 1310 43-2587CV.35SO D02 1590 1930 1727 2103 1800 2126 1983 1724	67
39 62	1052 2110 1844 2176 1366 2417 1038 2525 979 2934 843 3420 265 3875 -417	89
39 62	1053 4142 -505 4495 -613 4861 -784 5269 -685 5653 -505 6228 -405 6641 -450	60
39 62	1054 7241 -809 7732-1030 8005-1140 8421-1257 8719-1317 9343-137610178-1348	46
39 62	105510731-128911320-123412198-122013013-125913898-134814857-147615840-1598	23
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39 62	105725710-242826860-249227869-253828904-2587	76
39 62	1061830124 1220 44-2745 1574 1901 1689 2076 1778 2156 1935 1793	69
39 62	1062 2019 1703 2080 1869 2150 1747 2172 1369 2293 1214 2445 1007 2913 795	83
39 62	1063 3325 328 3803 -239 4140 -523 4502 -552 4814 -577 5213 -686 5695 -720	82
39 62	1064 6160 -545 6716 -555 7541 -916 8247-1227 8893-1337 9912-134210668-1271	51
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Table B1. (Continued)

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39	62	1112 2096 1850 2154 1699 2168 1394 2322 1183 2472 1146 2872 935 3332 284	20
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39	62	1141830505 845 38-2680CV.05E 1465 1932 1692 2085 1799 2134 1999 1727	55
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39	62	1143 4242 -556 4601 -565 5092 -600 5533 -498 6238 -669 6733 -836 7407-1166	16
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39	62	1161830614 900 35-2672 1195 2169 1440 1923 1683 2074 1783 2165	45
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39	62	1163 3454 65 3980 -469 4559 -329 5181 -357 6016 -600 6970-1021 7991-1337	70
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Table B1. (Continued)

39 62 1171830630 1245 35-2610	1196 2179 1460 1928 1722 2114 1985 1753	18
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39 62 1191830725 1155 33-2762001	1193 2165 1442 1937 1699 2074 1822 2088	34
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39 62 1211830826 1230 35-2675	1198 2148 1460 1917 1725 2095 1816 2105	50
39 62 1212 2008 1711 2129 1809 2185 1401 2561 1086 2855 662 3241 216 3829 -345		39
39 62 1213 4376 -448 4811 -569 5349 -634 6027 -623 6799 -940 7641-1290 8523-1379		69
39 62 1214 9314-148510313-141711405-138412581-133913845-134415056-140016493-1583		46
39 62 121518071-178419324-194020623-207321926-218523094-227124456-237325832-2449		26
39 62 121627076-252028698-260830249-2675		46
39 62 1221830906 1410 38-2824	1187 2256 1190 2164 1402 1928 1771 2135	10 368
39 62 1222 1999 1716 2100 1860 2186 1409 2399 1218 2445 1141 2697 1016 2841 707		96
39 62 1223 3324 65 3844 -331 4575 -400 5223 -639 6025 -621 6820 -933 7564-1255		2
39 62 1224 8444-1405 9520-144810672-141811897-136113054-132314325-136315451-1466		42
39 62 122516917-164418233-180519477-196920899-210422712-225224186-236025435-2438		40
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39 62 1231830918 1240 34-2770	1187 2256 1190 2164 1402 1928 1771 2135	89
39 62 1232 1999 1716 2100 1860 2186 1409 2438 1154 2938 530 3401 -87 3863 -434		69
39 62 1233 4570 -544 5357 -375 6202 -600 7067 -978 8048-1530 8784-164110026-1456		2
39 62 123411381-140712378-135313558-133215153-143716866-164418251-181419509-1977		7
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39 62 123631121-272732458-2770		26
39 62 1241831001 1130 62-2648	1192 2163 1436 1910 1727 2101 1728 2088	17
39 62 1242 1799 2128 1897 1904 1971 1752 2048 1753 2110 1855 2122 1835 2151 1722		89
39 62 1243 2152 1742 2176 1462 2177 1455 2352 1182 2380 1150 2508 866 2641 683		43
39 62 1244 2733 554 3216 -43 3619 -436 3934 -532 4242 -634 4544 -710 4867 -734		73
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39 62 1246 6911 -672 7494 -992 7925-1288 8395-1523 8871-1532 9384-1498 9899-1475		69
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Table B1. (Continued)

39 62	124813831-135614294-136014872-138615241-142115740-147916907-164018131-1806	87
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39 62	1262 1971 1752 2110 1855 2152 1742 2177 1455 2352 1182 2528 875 2927 616	20
39 62	1263 3322 112 3615 -280 3974 -492 4486 -604 4944 -484 5445 -307 5943 -432	44
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39 62	1265 9865-158210376-151910940-142311670-142512273-139213117-134214002-1339	90
39 62	126614664-138015499-147315985-154716576-161617316-170717966-180618923-1902	4
39 62	126719724-200720401-205521116-212721631-215922499-222623459-229624304-2357	14
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39 62	1271831024 1415 44-2527 1192 2163 1436 1910 1728 2088 1799 2128	70 479
39 62	1272 1971 1752 2110 1855 2152 1742 2177 1455 2352 1182 2439 973 2680 802	80
39 62	1273 3072 444 3491 -88 3773 -459 4422 -218 5249 -313 5953 -494 6546 -682	55
39 62	1274 7240 -939 7767-1106 8409-1475 8986-1558 9403-1637 9799-156210551-1456	25
39 62	127511095-142211776-140312800-133613880-133514891-142215688-151716742-1664	68
39 62	127617719-178818837-191519821-202220709-209021650-216722504-223223605-2310	2
39 62	127724727-238625592-243126348-247826909-251027177-2527	44
39 62	1281831107 1300 35-2781 1194 2175 1427 1967 1707 2098 1780 2150	95
39 62	1282 1909 1879 2010 1729 2096 1870 2144 1768 2173 1474 2328 1258 2439 1014	25
39 62	1283 2843 722 3578 -30 4090 -392 4684 -396 5593 -371 6637 -705 7606-1102	0
39 62	1284 8696-1546 9858-140611128-138212511-133113984-137115423-151216949-1706	0 394
39 62	128518546-189219779-202521412-215222969-227524242-235826058-246027801-2555	70
39 62	128629387-263630811-270232335-2781	70
39 62	1291831121 836 34-2687 1181 2175 1448 1924 1706 2093 1863 1977	56
39 62	1292 1979 1744 2121 1825 2169 1482 2508 973 3048 474 3497 -54 3951 -364	94
39 62	1293 4642 -489 5350 -366 6206 -544 7002 -988 7859-1343 8830-1464 9827-1408	77
39 62	129410781-138711653-136412641-133113851-138115237-151116618-167317766-1821	95
39 62	129519008-195120514-208821722-218222907-227424116-234625250-242327833-2565	85
39 62	129629090-262030314-2687	25
39 62	1301831202 1000 34-2636 1183 2178 1392 1945 1698 2081 1966 1773	91
39 62	1302 2125 1820 2162 1507 2498 990 2816 754 3264 281 3701 -156 4215 -440	69 732
39 62	1303 4674 -300 5374 -402 6057 -569 6833 -895 7582-1324 8422-1458 9340-1498	9
39 62	130410361-136111474-136812938-132414324-141115620-155317037-172518447-1889	80
39 62	130519836-202820993-211522251-221723505-230524758-238226027-245727256-2532	88
39 62	130628508-258929416-2636	50
39 62	1321831227 1415 31-2683 2104 1889 2181 1463 2286 1295 2789 625	58
39 62	1322 3214 111 3543 -250 3774 -514 4001 -603 4349 -684 4836 -820 5376 -680	94
39 62	1323 5719 -489 6533 -570 7520 -951 8466-1568 8970-1616 9863-148010722-1447	33
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39 62	1332 2129 1788 2171 1467 2351 1195 2473 981 2926 510 3369 191 3905 -564	46
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Table B1. (Continued)

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39	62	1347	29178	-259630245	-265630992	-2690											88
39	62	1361	840202	1300	35-2738		1192	2170	1452	1925	1784	2148	2012	1750			96
39	62	1362	2122	1861	2175	1481	2328	1217	2454	999	2896	656	3497	-21	3976	-562	59
39	62	1363	4509	-737	5196	-750	5962	-611	7006	-571	8168	-990	9029	-123810182	-1432		38
39	62	1364	11516	-140712792	-132614271	-140415647	-156016905	-171917890	-183319100	-1966							95
39	62	1365	20420	-207521595	-216322592	-223423879	-231225205	-239526277	-246427458	-2524							6
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39	62	1371	840209	850	37-2759		1193	2178	1388	1930	1778	2163	1961	1787			95
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Table B1. (Continued)

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Table B1. (Continued)

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39188		3920350-208020750-211021450-215021950-219022650-223023150-2270	88			
39188		51810204	1200	59-2280D05	1710 2130 1760 2190 1820 2320 1910 2170	93
39188		52	1970	2020 2020 1650 2100 1500 2170 1310 2290 1130 2410 860 2480 730	0	
39188		53	2580	550 2740 370 2830 280 3090 40 3390 -300 3640 -650 3740 -760	19	
39188		54	3990	-840 4490 -870 4990 -920 5490 -960 6190 -990 6640 -920 6990 -820	26	452
39188		55	7290	-730 7690 -770 7990 -890 8290-1000 8690-1120 8990-1220 9290-1310	10	
39188		56	9390-1450	9740-1550 9990-159010190-153010790-149011290-146011490-1410	53	
39188		5712490-143013190-144013890-144014190-146014890-149015290-154015890-1600	41			
39188		5816290-164016890-171017390-178017890-186018490-189019090-197019690-2010	63			
39188		5920490-210021090-214021490-218022290-223022890-227023090-2280	29			
39188		71810217	1420	59-2380D09	1830 2330 1900 2210 1960 2090 1980 2030	24
39188		72	2050	1640 2200 1320 2310 1130 2360 1150 2540 720 2740 450 2770 430	6	
39188		73	3070	90 3670 -830 3870 -720 4270 -780 4570 -900 4870 -960 5270 -830	71	
39188		74	5670	-820 6070 -870 6470 -840 6770 -690 7170 -650 7570 -790 7970 -870	15	
39188		75	8370-1030	8770-1130 9170-1250 9370-1310 9570-1400 9670-148010370-1480	53	365
39188		7611170-147011770-148011970-148012770-146013370-146013970-146014670-1490	97			
39188		7715270-154015370-158015970-163016370-168016670-174017170-180017770-1830	52			
39188		7817970-188018470-194019170-202019770-205020170-209020970-212021270-2170	37			
39188		7921770-220022170-223022770-225023370-228023870-232024770-2380	60			
39188		91810303	1100	55-2300D04	1500 1790 1740 2140 1830 2330 1910 2170	18
39188		92	1980	2030 2060 1630 2130 1450 2300 1100 2420 920 2550 800 2730 630	37	

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Table B1. (Continued)

39188	93	3070	320	3230	180	3330	90	3430	-40	3530	-180	3630	-270	3830	-370	67
39188	94	3930	-480	4230	-700	4380	-800	4530	-870	4680	-960	4930	-1010	5130	-970	74
39188	95	5380	-1040	5780	-1060	5880	-1030	6230	-960	6480	-860	6530	-790	6830	-700	5
39188	96	7330	-680	7610	-760	8030	-890	8230	-1000	8560	-1100	9030	-1250	9430	-1340	32 479
39188	97	10130	-1430	11000	-1460	11930	-1440	12730	-1420	14130	-1460	14930	-1540	15540	-1600	18
39188	98	16430	-1690	17280	-1790	18180	-1870	19380	-1990	20030	-2060	20780	-2110	21780	-2190	87
39188	99	22130	-2200	23470	-2300											70
39188	101	810311	1030	46-2250D05				1740	2150	1790	2230	1830	2330	1900	2210	55
39188	102	1940	2120	1990	2020	2060	1620	2180	1340	2290	1100	2480	900	2710	680	1
39188	103	2820	590	2940	470	3070	350	3190	170	3400	0	3490	-110	3690	-370	6
39188	104	3890	-470	4010	-600	4240	-830	4570	-900	5040	-950	5590	-1050	6210	-870	24
39188	105	6590	-700	7190	-670	7690	-830	8040	-910	8370	-1010	8840	-1160	9340	-1260	79
39188	106	9790	-1350	10390	-1410	12390	-1390	13190	-1410	13840	-1450	14540	-1520	15590	-1620	36
39188	107	16890	-1760	17840	-1850	18990	-1950	19490	-2000	20290	-2050	21490	-2150	22990	-2250	28 404
39188	111	810319	1310	44-2290D07				1740	2130	1830	2330	1890	2230	1960	2080	83
39188	112	2010	1960	2040	1640	2150	1450	2210	1100	2460	840	2730	490	2880	400	11
39188	113	3130	290	3250	180	3470	20	3900	-200	4140	-460	4220	-700	4380	-830	17
39188	114	4720	-890	4990	-930	5640	-1010	6120	-860	6520	-610	7020	-670	7420	-770	64
39188	115	8080	-960	8520	-1070	8870	-1180	9420	-1290	10220	-1390	11220	-1410	11870	-1400	0
39188	116	13020	-1400	13870	-1450	14820	-1520	15770	-1640	16620	-1740	17420	-1810	18420	-1900	68
39188	117	19470	-1990	19820	-2030	20820	-2100	21620	-2160	23780	-2290					62
39188	121	810325	1400	40-2160				1930	2130	1990	2000	2130	1480	2310	1080	37
39188	122	2550	820	2770	640	2910	560	3210	350	3510	100	3810	-150	4210	-460	0
39188	123	4410	-710	4810	-870	5410	-910	6010	-930	6210	-900	6610	-700	6810	-650	40 382
39188	124	7210	-640	7810	-710	8410	-910	8610	-1010	8810	-1110	9210	-1200	9610	-1290	96
39188	125	10010	-1360	10610	-1380	11210	-1390	12010	-1380	12610	-1390	13410	-1420	14610	-1580	36
39188	126	15210	-1630	16210	-1700	17010	-1800	17410	-1830	18810	-1980	19410	-2010	21010	-2140	62
39188	127	21610	-2160													42
39188	131	810330	1200	47-2510				1830	2330	1920	2150	1980	1980	2050	1650	17
39188	132	2310	1080	2590	810	2850	730	3190	300	3600	-90	4000	-410	4200	-510	90
39188	133	4600	-750	4800	-890	5200	-940	5400	-930	5800	-860	6400	-530	7000	-600	82
39188	134	7400	-750	7800	-830	8000	-910	8200	-980	8800	-1130	9200	-1240	9800	-1300	84
39188	135	10200	-1350	10800	-1360	11200	-1360	11600	-1350	12700	-1370	13400	-1410	14200	-1490	59
39188	136	14600	-1530	15600	-1640	16200	-1700	17200	-1790	17800	-1850	18600	-1930	18800	-1960	81 649
39188	137	19700	-2020	20200	-2050	21000	-2120	21800	-2160	23200	-2270	24200	-2330	25600	-2440	40
39188	138	26600	-2510													84
39188	151	810415	1030	38-2400D06				1830	2420	1940	2100	1970	2030	2050	1660	76
39188	152	2300	1080	2600	790	2830	560	3120	370	3320	120	3620	-190	3820	-360	10
39188	153	4620	-540	4820	-840	5020	-900	5420	-820	5820	-740	6420	-760	6820	-670	29
39188	154	7620	-730	8420	-870	9020	-1120	9420	-1270	11020	-1350	12220	-1360	13420	-1440	49
39188	155	14020	-1470	14820	-1550	15820	-1640	16620	-1740	17220	-1800	18020	-1870	18620	-1930	13
39188	156	19420	-2000	20420	-2070	21020	-2110	23020	-2260	24220	-2340	25020	-2400			66
39188	161	810422	1400	37-2190D010				1830	2320	1940	2090	1970	2000	2050	1650	60
39188	162	2300	1090	2590	800	2710	590	3520	10	4020	-370	4320	-740	5120	-810	77 504
39188	163	5420	-810	5920	-740	6320	-840	6520	-950	6920	-970	7320	-940	7720	-750	81
39188	164	7920	-760	8520	-930	9320	-1200	9720	-1310	10520	-1330	11920	-1350	12920	-1380	67
39188	165	14120	-1470	14520	-1530	15120	-1600	15920	-1690	16520	-1750	17120	-1800	17520	-1840	23
39188	166	18120	-1900	18720	-1940	20520	-2080	21320	-2140	22120	-2190					10

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Table B1. (Continued)

39188	181810505	1420	43-2160D06	1680	2040	1830	2320	1950	2110	1980	2010	38				
39188	182	2000	1900	2080	1570	2310	1070	2680	660	2950	480	3290	210	3690	-20	56
39188	183	3890	-290	4090	-420	4490	-510	4690	-620	5090	-680	5490	-630	5890	-750	13
39188	184	6290	-850	6490	-1080	7290	-1080	7690	-820	8090	-770	8690	-940	9090	-1130	84
39188	185	9490	-1220	10090	-1280	10690	-1310	12090	-1330	13090	-1380	13490	-1430	13890	-1500	50
39188	186	14490	-1540	15290	-1630	15890	-1690	16990	-1810	17290	-1840	18290	-1930	18890	-1960	35
39188	187	19490	-2000	20090	-2030	20690	-2100	21490	-2160							457
39188	201810518	1445	41-2240D09	1830	2330	1940	2120	2000	1970	2080	1570	62				
39188	202	2320	1050	2560	760	2710	660	2990	530	3200	290	3630	20	4030	-330	21
39188	203	4230	-380	4530	-490	4730	-660	5130	-1000	5330	-1090	5730	-1090	5930	-1080	70
39188	204	6180	-1090	6830	-1020	7230	-1020	7330	-810	7730	-750	7930	-820	8330	-950	94
39188	205	8930	-1050	9430	-1160	9780	-1220	10330	-1260	12230	-1340	13230	-1410	13930	-1480	38
39188	206	14730	-1540	15330	-1620	16130	-1710	17730	-1840	19130	-1950	19530	-1980	20730	-2080	77
39188	207	22530	-2190	23130	-2240											5
39188	221810601	1415	51-2200D05	1830	2260	1940	2110	1980	1980	2070	1600	29				
39188	222	2240	1190	2310	1050	2580	770	2790	650	3010	640	3260	320	3530	40	26
39188	223	3800	-170	4100	-370	4300	-480	4600	-590	5000	-630	5300	-700	5500	-810	65
39188	224	5600	-960	5800	-1090	6000	-1140	6300	-1140	6500	-1110	6800	-1040	6900	-860	488
39188	225	7000	-760	7100	-700	7400	-710	7600	-710	7800	-790	8100	-860	8400	-920	22
39188	226	8600	-980	8800	-1030	9000	-1080	9200	-1140	9400	-1200	9800	-1230	10200	-1250	70
39188	227	11000	-1290	11900	-1330	12800	-1420	14400	-1540	15200	-1610	15600	-1680	16400	-1760	32
39188	228	17800	-1890	19000	-1970	20400	-2050	21600	-2140	22600	-2200					46
39188	241810615	1300	59-2870D05	1750	2120	1790	2200	1840	2270	1930	2100	13				
39188	242	1990	1920	2070	1560	2190	1300	2300	1030	2470	830	2660	650	2910	650	58
39188	243	3050	450	3180	340	3310	170	3510	-30	3650	-170	3810	-340	4070	-450	80
39188	244	4440	-600	5060	-700	5330	-800	5590	-960	5720	-1060	5990	-1180	6250	-1180	77
39188	245	6490	-1100	6730	-910	6990	-750	7180	-700	7340	-740	7690	-810	8050	-900	25
39188	246	8490	-1010	9100	-1150	9560	-1230	9960	-1260	10420	-1260	10960	-1280	11700	-1330	484
39188	247	12490	-1380	13330	-1460	14160	-1530	14740	-1580	15650	-1670	16580	-1750	17690	-1850	60
39188	248	18660	-1920	19830	-2000	21400	-2100	22690	-2200	24350	-2310	25350	-2370	26380	-2470	63
39188	249	27560	-2550	29020	-2650	30010	-2700	31080	-2760	31940	-2810	33240	-2870			52
39188	271810702	1230	58-2970	1720	2100	1780	2190	1840	2300	1950	2040	55				
39188	272	2010	1840	2080	1540	2310	1020	2620	630	2640	640	2870	460	2890	470	0
39188	273	3080	270	3550	80	3600	-40	3810	-170	4110	-300	4430	-560	4670	-680	14
39188	274	4900	-750	5230	-910	5490	-1000	5620	-1020	5800	-1160	6080	-1150	6330	-1000	29
39188	275	6600	-790	6840	-690	7150	-730	7510	-850	7920	-920	8330	-1050	8900	-1150	1
39188	276	9590	-1250	10100	-1270	10970	-1290	11850	-1340	12740	-1420	13480	-1480	14300	-1560	65
39188	277	15000	-1610	15970	-1730	17110	-1820	18260	-1920	19600	-2000	20900	-2080	22110	-2160	378
39188	278	23070	-2250	24240	-2310	25220	-2380	26770	-2480	27800	-2560	28860	-2630	29930	-2700	36
39188	279	30910	-2760	31230	-2800	32420	-2850	33590	-2910	34720	-2970					98
39188	291810717	1200	46-2940	1600	1880	1860	2290	1990	1980	2070	1590	76				
39188	292	2290	1050	2570	640	2720	560	2930	520	3040	440	3120	350	3400	100	72
39188	293	3670	-80	3980	-310	4310	-580	4530	-700	4810	-800	5170	-970	5630	-1010	12
39188	294	5960	-990	6230	-750	6500	-660	7060	-770	7650	-920	8530	-1110	9190	-1230	84
39188	295	9940	-1250	10230	-1270	11360	-1340	12730	-1420	14010	-1540	15400	-1670	16770	-1800	26
39188	296	18150	-1900	19490	-1990	20970	-2100	22160	-2170	23350	-2280	24700	-2340	24930	-2370	3
39188	297	26190	-2470	27130	-2550	28370	-2600	29750	-2710	30960	-2780	32480	-2870	34480	-2940	65
39188	321810805	1200	57-3030	1660	1950	1850	2300	1980	2000	2100	1540	30				

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Table B1. (Continued)

39188	322	2210	1270	2490	780	2680	660	2720	660	2780	560	2880	480	2990	410	4
39188	323	3110	320	3160	240	3360	60	3600	-200	3870	-380	4110	-470	4480	-600	45
39188	324	4900	-780	5230	-890	5590	-1010	5820	-990	6100	-770	6360	-670	6740	-720	79
39188	325	7040	-800	7360	-880	7700	-970	8150	-1060	8450	-1120	8790	-1170	9200	-1220	31
39188	326	9670	-1240	10050	-1260	10450	-1280	10820	-1300	11690	-1350	12630	-1420	13550	-1490	8
39188	327	14390	-1570	15240	-1640	16170	-1730	17050	-1820	18290	-1910	19460	-1990	20990	-2080	69
39188	328	22360	-2200	23770	-2290	25150	-2400	26420	-2490	27800	-2570	29160	-2670	30530	-2740	24
39188	329	32440	-2870	33660	-2920	34720	-2970	36040	-3030							7 359
39188	331	810810	1200	56	-3050	001		1700	2070	1840	2290	1960	2040	2080	1560	87
39188	332	2240	1160	2530	690	2580	680	2630	680	2790	550	2960	450	3200	290	36
39188	333	3470	-50	3690	-360	3930	-430	4170	-530	4380	-560	4720	-690	4950	-800	86
39188	334	5270	-910	5600	-1010	5870	-950	6090	-770	6270	-700	6430	-680	6640	-710	91
39188	335	6850	-760	7160	-840	7510	-920	7940	-1010	8450	-1120	8820	-1180	9180	-1210	90
39188	336	9570	-1230	9990	-1260	10800	-1290	11660	-1350	12560	-1410	13430	-1480	14310	-1560	81
39188	337	15440	-1680	16620	-1780	17750	-1880	18830	-1950	20350	-2050	21840	-2150	23320	-2250	26
39188	338	24690	-2350	25950	-2450	27060	-2520	28380	-2610	29920	-2710	31380	-2800	32490	-2860	10
39188	339	33900	-2930	35200	-3000	36140	-3050									52
39188	351	810821	1000	37	-1180	A024		1720	2100	1840	2300	1880	2240	1960	2020	4 563
39188	352	2070	1600	2150	1380	2220	1120	2300	960	2610	510	2770	520	2990	290	22
39188	353	3010	240	3140	190	3350	-20	3550	-190	3680	-300	3800	-380	3980	-370	70
39188	354	4250	-590	4490	-810	4750	-880	5030	-880	5330	-960	5590	-970	5870	-980	58
39188	355	6120	-860	6340	-750	6490	-710	6710	-700	7010	-740	7300	-800	7440	-850	17
39188	356	7910	-980	8170	-1050	8460	-1110	8710	-1150	8950	-1180					61
39188	371	810823	1200	35	-1130	A022		1720	2100	1840	2300	1880	2240	1960	2020	38
39188	372	2070	1600	2150	1380	2220	1120	2300	960	2580	700	2770	520	3140	190	62
39188	373	3320	60	3580	-130	3720	-370	4010	-440	4300	-510	4480	-610	4880	-810	6
39188	374	5310	-950	5500	-1060	5780	-990	5940	-910	6110	-960	6350	-920	6520	-830	1
39188	375	6860	-780	7020	-730	7230	-710	7520	-740	7690	-790	7850	-860	8080	-930	13 348
39188	376	8380	-1030	8610	-1080	8900	-1130									96
39188	381	810825	1200	57	-2760			1660	2000	1750	2140	1840	2330	1930	2140	22
39188	382	2000	1920	2070	1600	2160	1380	2230	1120	2360	920	2620	630	2840	480	73
39188	383	3100	270	3460	-70	3720	-260	3980	-330	4330	-500	4570	-630	4600	-650	55
39188	384	4880	-760	4950	-790	5170	-890	5290	-960	5410	-1010	5560	-970	5800	-1000	32
39188	385	6050	-930	6230	-850	6530	-800	6780	-740	7120	-670	7430	-740	7790	-880	62
39188	386	8190	-1000	8500	-1080	9000	-1160	9340	-1200	9690	-1220	10480	-1260	11430	-1310	31
39188	387	12120	-1360	13160	-1460	14190	-1550	15230	-1650	16300	-1760	17560	-1870	18580	-1920	39
39188	388	19670	-2000	20970	-2090	22210	-2180	23510	-2260	24680	-2350	25640	-2410	26710	-2490	66
39188	389	27860	-2570	28770	-2630	29860	-2710	30880	-2760							9 485
39188	391	810827	1300	45	-1820			1660	2000	1750	2140	1840	2330	1930	2140	0
39188	392	2000	1920	2070	1600	2160	1380	2230	1120	2360	920	2480	760	2660	620	99
39188	393	3000	350	3330	70	3660	-270	4220	-480	4700	-530	5090	-870	5540	-970	21
39188	394	5910	-940	6220	-840	6540	-730	6810	-670	7190	-690	7410	-760	7570	-820	61
39188	395	7850	-910	8110	-990	8550	-1090	8940	-1150	9310	-1190	9830	-1220	10310	-1250	52
39188	396	10870	-1280	11380	-1310	11800	-1340	12270	-1370	12910	-1430	13270	-1470	13700	-1500	82
39188	397	14170	-1550	14630	-1610	15110	-1640	15580	-1690	16050	-1720	17130	-1820			50
39188	411	810908	1200	48	-2750			1730	2150	1840	2300	1940	2090	2050	1640	4
39188	412	2170	1330	2210	1150	2300	1060	2390	1030	2550	1020	2930	670	3270	340	17
39188	413	3660	-170	3820	-370	4090	-510	4420	-730	4740	-870	5060	-990	5500	-900	88 474

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Table B1. (Continued)

39188	414	5730	-580	5910	-450	6220	-440	6510	-510	7010	-680	7390	-800	7570	-850	18
39188	415	7930	-940	8460	-1050	9010	-1140	9700	-1200	10360	-1240	11090	-1300	11970	-1380	72
39188	416	13010	-1470	13930	-1570	15000	-1670	16040	-1750	17230	-1850	18340	-1930	19520	-2000	27
39188	417	20630	-2070	21870	-2150	23200	-2240	24410	-2340	25610	-2430	27130	-2530	28470	-2630	37
39188	418	29880	-2700	30720	-2750											32
39188	421	810914	1030	57-2900				1730	2110	1830	2300	1930	2100	2020	1760	46
39188	422	2120	1470	2180	1280	2210	1150	2300	1060	2480	1020	2670	950	2680	980	81
39188	423	2800	860	2860	670	2870	650	3100	440	3220	310	3550	-50	3770	-250	83
39188	424	4020	-430	4190	-590	4520	-820	4970	-950	5210	-850	5310	-530	5450	-410	91
39188	425	5630	-370	5910	-420	6300	-550	6750	-690	7140	-790	7540	-890	7940	-980	70 557
39188	426	8410	-1070	8910	-1120	9410	-1180	9860	-1210	10620	-1270	11460	-1330	12210	-1410	64
39188	427	13150	-1480	14090	-1590	15090	-1680	16100	-1760	17180	-1850	18300	-1920	19370	-1980	85
39188	428	20720	-2090	22060	-2170	23170	-2240	24250	-2330	25480	-2420	27030	-2530	28300	-2610	12
39188	429	29540	-2680	30950	-2750	32440	-2840	33640	-2900							14
39188	431	810920	1200	59-2900DS5				1730	2100	1830	2300	1940	2070	2050	1670	11
39188	432	2160	1350	2310	1080	2450	1020	2630	1050	2790	820	2950	590	2980	520	75
39188	433	3190	300	3260	200	3400	100	3480	0	3530	-60	3660	-190	3830	-290	55
39188	434	4160	-490	4430	-620	4750	-690	5110	-690	5450	-590	5820	-520	6280	-520	83
39188	435	6650	-620	6940	-720	7260	-820	7670	-950	7950	-980	8260	-1050	9180	-1180	69
39188	436	10170	-1240	10880	-1280	11290	-1310	11630	-1340	11950	-1380	12360	-1410	12670	-1440	70 538
39188	437	12970	-1470	13550	-1510	13980	-1570	14090	-1580	15090	-1670	16100	-1760	17180	-1850	11
39188	438	18300	-1920	19370	-1970	20720	-2080	22060	-2170	23170	-2230	24250	-2320	25480	-2420	8
39188	439	27030	-2520	28300	-2610	29540	-2670	30950	-2750	32440	-2830	33640	-2900			91
39188	441	810928	1315	54-3000				1750	2120	1810	2230	1880	2210	1970	1960	29
39188	442	2070	1610	2170	1290	2300	1060	2490	1020	2600	1020	2880	580	3200	270	88
39188	443	3550	-90	3770	-270	4050	-410	4280	-600	4650	-720	5020	-760			42
39188	444	5330	-650	5690	-610	6090	-590	6450	-590	6820	-670	7180	-770	7570	-890	55
39188	445	8030	-1010	8520	-1100	8920	-1150	9440	-1190	9890	-1220	10220	-1250	10930	-1320	88
39188	446	11770	-1390	12590	-1480	13410	-1520	14230	-1620	15060	-1690	16280	-1790	17420	-1860	11
39188	447	18520	-1960	19750	-2020	20850	-2110	22050	-2180	23590	-2300	25480	-2390	26280	-2480	16 439
39188	448	27710	-2580	28880	-2650	30140	-2720	30670	-2750	31940	-2820	33040	-2880	34280	-2950	87
39188	449	35160	-3000													53
39188	451	811005	1530	59-3020DS5				1830	2300	1930	2100	2210	1160	2640	1060	76
39188	452	2860	710	2890	500	3370	120	3490	10	3740	-200	4040	-370	4350	-610	63
39188	453	4590	-720	4900	-740	5120	-670	5690	-560	5940	-540	6260	-570	6490	-630	39
39188	454	6550	-640	6680	-670	6760	-700	7040	-770	7320	-860	7730	-960	7980	-1020	49
39188	455	8230	-1060	8560	-1110	8830	-1140	9300	-1190	9710	-1220	10480	-1280	11080	-1320	3
39188	456	11450	-1350	12430	-1440	14010	-1600	14720	-1660	15720	-1750	16480	-1800	17250	-1860	47
39188	457	17870	-1900	18750	-1960	19560	-2000	20330	-2060	21060	-2110	222100	-2180	22900	-2240	96
39188	458	24070	-2330	24860	-2380	25870	-2460	26610	-2500	27050	-2550	28000	-2600	28850	-2650	44 557
39188	459	29780	-2700	31070	-2770	32330	-2830	33410	-2900	34550	-2950	35700	-3020			84
39188	461	811016	1100	41-1400A025				1730	2110	1830	2260	1970	2020	2050	1590	42
39188	462	2190	1200	2350	1100	2610	870	2790	680	3030	440	3270	170	3520	-130	4
39188	463	3780	-190	3960	-320	4190	-690	4250	-720	4420	-860	4650	-960	4930	-1050	50
39188	464	5040	-1060	5180	-1010	5510	-910	5800	-830	5850	-840	6290	-810	6870	-720	27
39188	465	7060	-710	7110	-730	7560	-720	7750	-760	7780	-780	8070	-880	8300	-950	75
39188	466	8810	-1060	9140	-1100	9520	-1150	9870	-1190	10300	-1230	10610	-1250	10790	-1280	44
39188	467	11280	-1350	12000	-1400											25

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Table B1. (Continued)

39188	471811017	1630	41-2370			1730	2110	1830	2260	1970	2020	2050	1590	32			
39188	472	2190	1200	2350	1100	2470	1000	2610	870	2760	730	3130	340	3640	-140	43	426
39188	473	3980	-510	4320	-800	4720-1030	5080-1090	5410	-890	5710	-820	6230	-790	83			
39188	474	6560	-740	7120	-650	7650	-720	8420	-940	9310-108010300	-122011090	-1290	56				
39188	47511840	-137012500	-145013540	-155014540	-164015400	-171016430	-180017300	-1850	8								
39188	47618370	-193019350	-200020410	-207021440	-215022240	-218022900	-225023590	-2290	49								
39188	47724270	-234025060	-2370						98								
39188	481811022	1400	59-2790			1720	2100	1830	2290	2000	1820	2150	1340	87			
39188	482	2210	1180	2380	1100	2520	1000	2560	900	2680	760	2780	620	3070	360	59	
39188	483	3400	120	3670	-180	3950	-410	4180	-610	4410	-830	4630	-930	4910	-1000	31	
39188	484	5190	-950	5570	-870	5870	-830	6200	-800	6540	-700	6800	-630	7030	-630	29	
39188	485	7420	-720	7750	-810	8030	-880	8280	-940	8530	-990	8860	-1040	9150	-1070	59	559
39188	486	9350	-1110	9630	-1140	9820	-116010000	-118010390	-123010820	-128011370	-1340	54					
39188	48712090	-142012860	-150013580	-157014300	-163015240	-172015960	-177016860	-1840	24								
39188	48817670	-189018790	-195019870	-203021020	-213022030	-219023320	-228024530	-2370	82								
39188	48925840	-246026860	-253028050	-262029250	-268030270	-274031230	-2790	8									
39188	501811103	1645	46-2010A011			1750	2120	1840	2280	1960	2020	2110	1480	94			
39188	502	2200	1220	2340	1120	2470	1020	2530	830	2670	660	2930	500	3140	320	52	
39188	503	3420	80	3630	-90	3980	-380	4280	-540	4610	-750	4870	-810	5120	-840	98	
39188	504	5450	-870	5780	-890	6020	-900	6340	-900	6680	-910	7020	-910	7330	-900	94	
39188	505	7860	-900	8310	-830	8630	-790	8840	-780	9130	-820	9720	-93010370	-1090	46		
39188	50611070	-122011890	-135012140	-140012770	-147013060	-152013810	-159014590	-1660	36	588							
39188	50715280	-172015920	-178016550	-182017380	-188018130	-193018750	-196019420	-2010	6								
39188	511811110	1530	45-2900			1830	2280	1960	2010	2030	1730	2150	1370	45			
39188	512	2210	1190	2460	1030	2510	880	2680	680	2820	500	3250	210	3630	-150	17	
39188	513	3970	-310	4300	-450	4560	-660	4830	-860	5110	-860	5380	-860	5770	-900	26	
39188	514	6200	-900	6600	-900	7230	-900	7850	-860	8420	-780	9060	-830	9730	-970	67	
39188	51510380	-112011010	-123011840	-135013050	-151014200	-162015440	-174016700	-1830	49								
39188	51617680	-189019140	-199020680	-210022080	-219023540	-230024730	-237026010	-2470	75								
39188	51727230	-255028470	-264029690	-270030910	-275032250	-282033450	-2900	41									
39188	521811116	1300	46-2590			1710	2080	1830	2280	1920	2130	2010	1850	70			
39188	522	2060	1570	2090	1230	2170	1050	2250	910	2640	350	2890	70	3140	-30	12	408
39188	523	3490	-90	3750	-100	3980	-160	4220	-220	4590	-360	4960	-570	5350	-760	47	
39188	524	5760	-910	6120	-990	6600	-1060	7110	-1130	7530	-1180	8040	-1220	8590	-1260	47	
39188	525	9190	-1250	9880	-118010620	-107010890	-105011370	-104011780	-107012210	-1130	74						
39188	52613080	-131013880	-144015100	-161016080	-172017050	-181018130	-189019590	-1990	96								
39188	52720660	-208021790	-216023040	-226024130	-234025380	-244026680	-253027910	-2590	72								
39188	531811118	1615	43-2810			1710	2080	1830	2280	1920	2130	2010	1850	78			
39188	532	2060	1570	2090	1230	2170	1050	2250	910	2360	730	2540	480	2800	230	29	
39188	533	3070	-50	3370	-120	3610	-120	3910	-110	4310	-270	4760	-450	5200	-700	53	
39188	534	5720	-910	6420	-1040	7070	-1120	7810	-1210	8550	-1250	9180	-1240	9860	-1170	87	
39188	53510770	-105011450	-104012280	-114013130	-131014150	-148015300	-164016700	-1780	4	587							
39188	53617850	-186019170	-196020700	-208021980	-217023350	-228024790	-238026080	-2500	45								
39188	53727530	-259028880	-266030370	-273031600	-2810				48								
39188	541811123	1100	45-2940			1730	2080	1830	2280	1920	2120	1990	1920	98			
39188	542	2040	1720	2070	1370	2110	1170	2230	940	2350	760	2430	620	2680	340	39	
39188	543	3010	100	3240	-60	3600	-50	4030	-200	4430	-340	5010	-640	5360	-790	7	
39188	544	5780	-930	6150	-1000	6740	-1090	7350	-1170	8010	-1230	8590	-1250	9180	-1250	25	

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39188	545	9840-119010560-108011400-104012300-116013190-133014410-154015490-1680	84
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39188	547	26670-253028170-263029650-271031340-281032740-288034220-2940	84
39188	551	811127 930 46-2130 1720 2110 1750 2140 1790 2210 1830 2260	82 546
39188	552	1880 2210 1920 2140 1960 2020 1990 2100 2020 1790 2050 1530 2090 1320	41
39188	553	2120 1170 2250 880 2450 630 2850 260 3120 30 3550 -180 3790 -210	42
39188	554	4070 -300 4520 -420 4910 -460 5360 -660 5750 -820 6220 -980 6510-1050	28
39188	555	6980-1130 7570-1210 8140-1280 8750-1330 9230-1340 9740-129010330-1190	58
39188	556	10980-106011540-102012110-109012650-118013310-130013920-142014500-1510	43
39188	557	15460-164016480-175017500-185018460-193019290-199020140-206020940-2130	45
39188	561	811207 1000 41-2776 1777 2199 1842 2263 1982 1922 2040 1694	32
39188	562	2091 1295 2206 952 2437 709 2686 544 2904 414 2974 363 3203 150	76
39188	563	3479 -231 3690 -506 3999 -553 4283 -306 4538 -321 5070 -517 5571 -754	48
39188	564	6087 -981 6556-1191 7164-1214 7910-1276 8670-1362 9333-133210017-1170	34 447
39188	565	10864 -99411573-101812333-114013223-130814086-145415578-165616933-1791	47
39188	566	18565-193920368-207921847-219123743-233925120-244026519-252228104-2616	75
39188	567	29489-269330949-2776	28
39188	581	820105 1400 40-2832 1827 2282 1917 2128 1998 1868 2047 1599	27
39188	582	2097 1254 2199 961 2347 804 2379 771 2852 415 3290 -4 3470 -302	89
39188	583	3623 -513 3811 -561 4257 -601 4877 -423 5440 -513 5901 -774 6301-1019	29
39188	584	6825-1163 7325-1230 7954-1310 8639-1359 9240-1310 9839-123410572-1148	44
39188	585	11338-110212257-114413625-133615138-158617069-181118500-194719857-2044	86
39188	586	21686-216423257-228624926-240127046-255528763-265830120-272930983-2775	0
39188	587	32222-2832	52 477
39188	591	820120 1500 41-2735DS1 1745 2107 1852 2261 1986 1951 2055 1667	34
39188	592	2098 1332 2165 1064 2381 782 2608 603 2886 365 3113 108 3474 -286	71
39188	593	3709 -426 4105 -390 4529 -299 4919 -428 5364 -643 5847 -872 6331-1070	14
39188	594	6860-1165 7452-1271 8081-1352 8767-1346 9414-127410285-116311072-1118	40
39188	595	11899-113513093-124813939-139615082-158616043-168917202-182418345-1934	45
39188	596	19718-202820972-212622150-220223306-229924632-239125805-246328208-2623	53
39188	597	28974-265830150-2735	12
39188	601	820125 1530 45-2900 1727 2120 1836 2272 1980 1927 2067 1449	98
39188	602	2123 1152 2308 834 2644 573 3009 263 3177 73 3505 -271 3774 -576	48
39188	603	4303 -467 4722 -422 5076 -403 5498 -566 5911 -743 6364 -985 7029-1197	41 456
39188	604	7700-1290 8367-1330 9039-1293 9695-122310482-113111251-109811900-1118	99
39188	605	12645-120313363-131314133-144115113-158915980-170317029-181317850-1892	16
39188	606	18906-197419911-204421185-214522350-222923473-231324656-240025976-2484	31
39188	607	27263-255928568-263930001-270131266-278932467-282833587-2900	24
39188	611	820128 1100 50-2830 1733 2125 1840 2281 1978 1932 2032 1709	12
39188	612	2120 1196 2304 853 2586 603 3052 205 3332 -72 3537 -391 3791 -575	29
39188	613	4120 -545 4569 -344 4899 -322 5367 -527 5814 -709 6074 -845 6442 -969	28
39188	614	6781-1104 7168-1190 7526-1232 7971-1279 8524-1302 9143-1287 9747-1247	86
39188	615	10373-119011169-109511819-109912478-115513170-126714029-146214734-1525	83
39188	616	15697-166316651-178417448-185018948-194719868-204721176-216222728-2237	54 462
39188	617	23363-231624564-240825604-248126719-253927873-259828522-265429684-2697	55
39188	618	30245-273230643-274331145-277032465-2830	63
39188	621	820208 62 47-2912 1723 2118 1838 2277 1939 2077 2012 1791	87
39188	622	2079 1372 2142 1105 2286 863 2436 715 2463 689 2826 426 3214 120	23

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Table B1. (Continued)

39188	623	3489	-264	3765	-526	3996	-508	4232	-308	4461	-338	4895	-470	5381	-628	7
39188	624	5759	-790	6345	-1009	6950	-1134	7599	-1237	8343	-1274	8949	-1263	9587	-1213	35
39188	62510318	-113210994	-108411534	-108112126	-114413020	-126413878	-140814677	-1526								84
39188	62615832	-168116895	-179817838	-188819256	-200320711	-211822015	-219323409	-2313								86
39188	62724918	-241326620	-252627950	-260929246	-267930647	-275031855	-280232967	-2862								18
39188	62834083	-2912														93 551
39188	641820224	900	39	-2803		1720	2118	1838	2277	1939	2077	2012	1791			82
39188	642	2082	1262	2215	988	2543	615	2865	394	3148	150	3326	-63	3619	-203	10
39188	643	3943	-310	4116	-356	4344	-235	4751	-295	5228	-481	5675	-703	6389	-998	31
39188	644	7064	-1196	7765	-1301	8467	-1326	8996	-1313	9818	-124210845	-113411980	-1126			54
39188	64512919	-124914423	-148615550	-163817100	-182318922	-198020167	-207621375	-2177								57
39188	64622591	-226423909	-235725278	-244926391	-252829146	-267330248	-27331378	-2803								61
39188	661820308	1200	35	-2549D53		1729	2132	1840	2285	1992	1921	2057	1515			8
39188	662	2215	988	2356	804	2712	472	3325	299	3769	-143	4009	-315	4333	-322	58
39188	663	4797	-349	5359	-484	5768	-565	6251	-743	6662	-984	7372	-1237	8123	-1313	4
39188	664	9016	-1310	9764	-123910520	-113611116	-108911996	-112612879	-125014004	-1429						41 406
39188	66515103	-158716587	-176718042	-189019445	-201420725	-212021968	-221523244	-2301								8
39188	66624720	-240025972	-250826917	-2549												90
39188	671820317	1220	46	-2839D52		1627	1928	1756	2168	1843	2265	1938	2063			77
39188	672	2039	1690	2088	1274	2349	811	2358	809	2839	597	3237	34	3657	-426	48
39188	673	3987	-453	4416	-465	4962	-434	5499	-616	6058	-721	6068	-721	6556	-964	38
39188	674	7228	-1208	7688	-1277	8299	-1304	8976	-1293	9623	-123510323	-112110910	-1078			86
39188	67511507	-109711981	-114612962	-127513774	-141014769	-154916151	-171717227	-1817								93
39188	67618742	-196220174	-208321893	-219623179	-229924420	-237524810	-241325135	-2430								51
39188	67725146	-243226412	-251227627	-259328736	-265330027	-270531141	-277132405	-2839								3
39188	681820324	1100	42	-2721CV-	-1005	1725	2123	1836	2277	1975	1960	2047	1584			54 548
39188	682	2108	1229	2222	989	2334	862	2369	790	2553	595	2999	484	3502	-72	27
39188	683	3729	-344	3968	-221	4436	-321	4921	-435	5422	-463	5845	-654	6368	-904	76
39188	684	6852	-1089	7513	-1251	8322	-1294	8975	-1257	9631	-119610202	-111910792	-1068			69
39188	68511393	-108411982	-114812826	-126013769	-140114613	-151015744	-166417110	-1795								28
39188	68618189	-189719553	-200520893	-212022473	-223523823	-234125096	-241326375	-2505								7
39188	68727669	-257429142	-266430436	-2721												62
39188	701820408	1100	37	-2830		1592	1881	1746	2140	1870	2216	2014	1763			30
39188	702	2103	1235	2737	624	3110	390	3486	1	3866	-432	4253	-563	4819	-465	82
39188	703	5350	-430	5905	-629	6346	-904	6906	-1188	7516	-1251	8296	-1285	9107	-1228	43
39188	704	9828	-113610470	-109311195	-110811885	-117412856	-129513738	-142514651	-1538							23 447
39188	70515778	-167917128	-182618570	-194620377	-209621826	-220023248	-229724732	-2408								57
39188	70626559	-252527971	-260229205	-267230730	-274732094	-2830										46
39188	721820419	1030	40	-2958		1609	1896	1730	2117	1844	2267	1982	1947			64
39188	722	2062	1488	2128	1189	2258	928	2347	793	2598	617	2973	511	3445	83	28
39188	723	3772	-330	4050	-285	4563	-325	5179	-448	5631	-624	6478	-999	7135	-1200	63
39188	724	7727	-1275	8391	-1286	9108	-1214	9941	-110210814	-108811544	-114512519	-1256				93
39188	72513718	-141214912	-158516063	-171217347	-183719293	-200220588	-210321680	-2185								27
39188	72623131	-228024977	-242226824	-254228546	-263530169	-271231558	-278533090	-2865								23
39188	72734520	-2958														23
39188	731820503	1200	39	-2894		1617	1912	1837	2260	1971	1963	2045	1611			79 503
39188	732	2117	1227	2266	916	2354	786	2732	684	3152	301	3580	-143	3838	-435	6
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Table B1. (Continued)

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39188	743	3213	309	3599	47	3838	-292	4166	-225	4575	-277	5048	-395	5615	-590	30
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39188	751820602	1030	40-2829	1536	1794	1707	2090	1840	2257	1949	2018	51				
39188	752	2027	1652	2164	1081	2377	784	2413	767	2516	756	2828	714	3280	251	79
39188	753	3792	-142	4351	-248	4969	-478	5465	-630	6017	-832	6699-1064	7246-1196	52		
39188	754	7827-1204	8603-1130	9234-1064	9727-105810389-108011009-113611715-1206	79										
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39188	762	2026	1669	2173	1052	2334	817	2412	774	2501	754	2872	602	3307	191	20
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39188	773	4612	-342	5043	-369	5558	-568	6046	-841	6569-1062	7184-1168	7864-1132	16			
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39188	791820712	1410	41-2854	1674	2022	1832	2244	1918	2110	2165	1093	61				
39188	792	2337	830	2362	806	2482	760	2854	633	3351	275	3708	-195	4038	-276	82
39188	793	4532	-339	5009	-430	5550	-617	6272	-998	6982-1159	7590-1141	8219-1097	16			
39188	794	8973-1041	9646-107210478-115911381-123412238-136313355-144914560-1596	52												
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Table Bl. (Continued)

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39188	843 5656 -770 6294-1002 7070-1152 7800-1124 8534-1062 9379-106110252-1140	87
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39188	933 4109 -624 4481 -487 4784 -399 5311 -381 5930 -483 6516 -676 6978 -824	39
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39188	972 1965 1975 2063 1516 2099 1325 2276 1182 2471 1099 2572 1063 2649 994	72
39188	973 2703 988 2899 744 3153 437 3544 -17 3849 -574 4180 -760 4485 -726	34
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39188	975 6523 -578 6951 -762 7408 -971 8006-1130 8460-1183 9009-1204 9370-1193	42
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39188	983 5024 -403 5578 -543 6217 -707 6848 -884 7621-1073 8327-1160 8928-1179	87
39188	984 9570-115810468-115111287-119511994-127413017-140013831-151214984-1643	90
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39188	1002 1821 2296 1990 1930 2101 1346 2355 1124 2356 1138 2577 1042 2845 630	24
39188	1003 3305 112 3745 -419 4101 -647 4654 -716 5171 -564 5620 -544 6002 -446	6 503
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Table B1. (Continued)

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39188	102515162-157516318-171417302-182918406-194419162-200719960-208120547-2114	75
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39188	1031821222 1022 42-2631051 1700 2098 1844 2253 1968 1899 2081 1434	6
39188	1032 2294 1165 2401 1010 2538 884 2722 623 2845 505 3346 111 3681 -405	45
39188	1033 3998 -760 8215 -845 5155 -945 5717 -972 6172 -905 6496 -624 6729 -531	74 348
39188	1034 7194 -632 7784 -941 8508-1252 9277-1377 9929-137810731-129311410-1228	58
39188	103512229-124013114-132814240-147415090-158116205-172217113-182218000-1910	17
39188	103618878-198919934-207421127-217322186-225123313-234424122-239025112-2460	81
39188	103726141-252227350-258928299-2631	55
39188	1041830111 1025 41-2611 1822 2255 1938 2039 2033 1638 2077 1417	86
39188	1042 2327 1117 2345 1053 2698 567 3080 111 3350 -198 3521 -562 3774 -698	89
39188	1043 4094 -761 4498 -820 4981 -799 5333 -765 5865 -674 6350 -595 6974 -717	5
39188	1044 7472 -890 8215-1188 8885-1323 9606-135410237-131011104-121611858-1198	34
39188	104512626-125613443-134214286-146815427-161816645-176317762-189418514-1946	3
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39188	1072 2287 1144 2341 1046 2639 813 2974 462 3214 207 3503 -108 3746 -561	5
39188	1073 4010 -660 4526 -814 5028 -789 5386 -715 5882 -549 6261 -503 6926 -670	94
39188	1074 7736-1008 8603-1339 9549-142310351-138411077-131011905-126012888-1290	79
39188	1075 13712-135815019-149215938-161117000-173117635-179518579-189519532-1985	37
39188	107620386-207921568-217522585-226823666-233724725-241025472-245426413-2521	6
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39188	1082 2279 1150 2371 1012 2715 673 3183 304 3779 -289 4090 -726 4465 -802	85
39188	1083 4909 -692 5389 -738 5865 -469 6491 -492 7228 -797 7947-1079 8530-1296	31
39188	1084 9223-139810067-137710800-131511463-127612169-126213096-132513948-1406	72
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Table B1. (Continued)

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Table B1. (Continued)

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39188	1163	5310	-586	6154	-576	7055	-913	7775	-1161	8723	-1369	9585	-1480	10608	-1529	80
39188	116411759	-142912931	-133613857	-135815374	-148316720	-164418092	-181519336	-1963								44
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39188	1171830630	1020	35-2592		1637	1953	1761	2184	1887	2117	1995	1761				68
39188	1172	2141	1311	2343	1077	2393	1041	2751	791	3300	260	3765	-352	4118	-512	72
39188	1173	4651	-594	5142	-651	5649	-481	6187	-631	6983	-956	7710	-1165	8663	-1367	54
39188	1174	9516	-147210447	-154411476	-145512374	-136113597	-133414635	-140615835	-1520							39
39188	117516881	-165618175	-182319354	-196420409	-207021632	-218622696	-227324154	-2384								27
39188	117625359	-245226509	-252027721	-2592												12
39188	1181830711	750	35-2763		1751	2180	1859	2197	1991	1780	2094	1432				34
39188	1182	2278	1151	2402	1032	2747	802	3157	342	3486	-34	3928	-312	4341	-537	57
39188	1183	4877	-639	5258	-429	5773	-577	6823	-949	7600	-1166	8460	-1329	9572	-1509	53
39188	118410589	-153911696	-142313171	-136414378	-138415733	-151017055	-169418210	-1822								34
39188	118519536	-197220805	-210522073	-222323289	-232024638	-242026039	-250027549	-2585								11
39188	118628789	-263529920	-270031047	-2763												73
39188	1191830725	933	34-2719		1733	2148	1874	2177	2008	1719	2132	1331				56
39188	1192	2343	1085	2426	1001	2627	884	3039	444	3730	-252	4250	-449	4785	-611	84
39188	1193	5297	-470	6046	-736	6920	-1001	7439	-1129	8469	-1335	9368	-1471	10476	-1544	5
39188	119411569	-142512736	-135013970	-136215332	-147516704	-163718001	-180219306	-1952								8
39188	119520530	-207221872	-219723181	-230524415	-239925906	-248727234	-254128381	-2604								36
39188	119629358	-266730471	-2719													60
39188	1201830808	915	30-2753D01		1814	2247	1913	2112	2044	1578	2200	1217				38
39188	1202	2459	979	2955	599	3534	5	4099	-259	4988	-481	5781	-728	6587	-926	68
39188	1203	7500	-1156	8519	-1354	9780	-155510983	-148012153	-136913496	-135614928	-1432					42
39188	120416284	-158317572	-175618948	-190820463	-207721800	-220422939	-229524457	-2399								95
39188	120525825	-248227086	-254328385	-260629615	-267230931	-2753										2
39188	1211830825	800	30-2516		1814	2247	1913	2112	2044	1578	2200	1217				94
39188	1212	2368	1044	2744	759	3270	272	3851	-374	4463	-365	5121	-393	5910	-580	56
39188	1213	6738	-984	7677	-1215	8545	-1367	9362	-148410465	-153511417	-146412394	-1354				87
39188	121413539	-135114640	-143415907	-153817179	-169518403	-185319655	-198520940	-2128								60
39188	121522071	-221923280	-230824479	-240925798	-247926649	-2516										33
39188	1221830906	800	33-2792		1678	1980	1830	2448	1966	2063	2081	1441				36
39188	1222	2284	1131	2391	1038	2835	709	3326	203	3567	-165	3895	-201	4506	-282	40
39188	1223	5386	-469	6283	-779	7097	-1092	8097	-1320	9159	-147210260	-153111449	-1427			33
39188	122412622	-135913901	-136715197	-147116497	-161817767	-178219226	-194720623	-2092								7
39188	122522029	-222223317	-232324718	-241826077	-250327542	-257628838	-264530082	-2709								4
39188	122631429	-2792														0
39188	1231830918	810	35-2865		1678	1980	1830	2448	1966	2063	2081	1441				90
39188	1232	2284	1131	2354	1059	2800	712	3312	271	3784	-334	4131	-489	4671	-598	79
39188	1233	5122	-556	5762	-488	6576	-853	7487	-1185	8487	-1344	9688	-151010723	-1492		1
39188	123411805	-138712727	-134914215	-138715719	-154117041	-170118458	-186819773	-2000								4
39188	123521231	-214322473	-225123739	-234925087	-244026522	-252827665	-257028879	-2641								96
39188	123630281	-271531446	-278732591	-2865												91
39188	1241831001	840	47-2722		1816	2272	1822	2261	1871	2271	1970	1902				27
39188	1242	1999	1814	2066	1524	2080	1480	2132	1339	2238	1187	2283	1223	2520	969	38

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Table B1. (Continued)

39188	1243	2601	904	2967	619	3233	346	3387	239	3758	-192	4069	-645	4451	-658	73
39188	1244	5015	-501	5492	-487	6083	-511	6846	-649	7529	-1011	8389	-1198	9001	-1274	25
39188	1245	9535	-1274	10098	-1412	10622	-1487	11298	-1456	12275	-1369	12898	-1333	13605	-1328	8
39188	1246	14442	-1380	15022	-1437	15446	-1493	15981	-1555	16754	-1652	17675	-1768	18340	-1848	98
39188	1247	19115	-1945	21531	-2175	22498	-2250	23992	-2366	25679	-2471	26915	-2535	29487	-2673	7
39188	1248	30442	-2722													16
39188	1251	831005	740	24	-2088		1816	2272	1871	2271	1999	1814	2066	1524		35
39188	1252	2238	1187	2384	1054	2910	602	3359	156	3906	-552	4642	-536	5522	-472	52 379
39188	1253	6474	-635	7294	-994	8246	-1272	9094	-1329	10175	-1439	11161	-1460	12487	-1359	50
39188	1254	13757	-1342	15090	-1444	16646	-1647	18086	-1822	19431	-1967	20665	-2088			70
39188	1261	831013	1400	41	-2390		1816	2272	1871	2271	1999	1814	2066	1524		95
39188	1262	2238	1187	2364	1066	2519	942	2898	562	3318	197	3884	-608	4125	-710	5
39188	1263	4552	-634	5014	-415	5438	-416	6102	-513	6670	-613	7167	-827	7885	-1126	20
39188	1264	8551	-1290	9247	-1401	9962	-1452	10629	-1480	11248	-1435	11966	-1407	12638	-1343	79
39188	1265	13596	-1341	14367	-1404	15086	-1467	15819	-1578	16540	-1666	17176	-1723	18006	-1821	36
39188	1266	18671	-1888	19632	-1989	20377	-2061	21293	-2171	21890	-2227	22809	-2296	23538	-2360	43
39188	1267	23857	-2366	24518	-2390											26
39188	1271	831024	1230	43	-2356		1816	2272	1871	2271	1999	1814	2066	1524		67 491
39188	1272	2238	1187	2348	1088	2488	979	2851	688	3214	378	3563	-27	3954	-658	71
39188	1273	4386	-308	4751	-342	5547	-430	6216	-516	6884	-690	7423	-917	7886	-1084	45
39188	1274	8756	-1340	9648	-1449	10422	-1465	11174	-1412	11677	-1361	12353	-1316	13207	-1327	26
39188	1275	13960	-1385	14553	-1446	15165	-1525	15918	-1612	16634	-1695	17214	-1770	17896	-1840	79
39188	1276	18381	-1883	18976	-1954	19531	-1992	20120	-2054	20517	-2093	21207	-2156	21690	-2191	67
39188	1277	22248	-2240	22687	-2282	23595	-2356	23618	-2347							14
39188	1281	831107	1200	32	-2821		1788	2228	1894	2104	2010	1741	2085	1464		37
39188	1282	2475	1022	2772	720	3341	106	3799	-556	4146	-570	4765	-563	5696	-476	74
39188	1283	6631	-638	7744	-1116	8508	-1328	9484	-1442	11474	-1338	12695	-1311	14060	-1421	85
39188	1284	15820	-1621	16865	-1732	18180	-1882	19404	-1992	20876	-2125	22091	-2238	23161	-2312	60 558
39188	1285	24292	-2385	25484	-2463	26622	-2524	27795	-2587	28731	-2631	29958	-2700	31890	-2821	44
39188	1291	831120	1000	30	-2743		1705	2095	1820	2252	1969	1862	2075	1492		99
39188	1292	2371	1075	2876	616	3570	-17	4363	-523	5394	-568	6517	-528	7631	-1009	69
39188	1293	9086	-1385	10167	-1437	11270	-1343	12462	-1314	13935	-1414	15278	-1555	16556	-1703	78
39188	1294	17695	-1825	18946	-1944	20059	-2053	21321	-2168	22501	-2265	23660	-2339	24578	-2400	96
39188	1295	25833	-2470	26880	-2530	28205	-2608	29617	-2668	30756	-2743					35
39188	1301	831202	815	33	-2683		1769	2203	1841	2301	1995	1807	2124	1355		29
39188	1302	2377	1069	2787	760	3382	82	3946	-366	4535	-578	5128	-571	5834	-390	88
39188	1303	6581	-603	7306	-901	8144	-1217	8941	-1388	9825	-1446	10820	-1393	11731	-1312	54
39188	1304	12786	-1332	14014	-1419	15535	-1594	16827	-1731	17997	-1863	19075	-1957	20227	-2069	84 676
39188	1305	21430	-2178	22598	-2270	23858	-2358	24985	-2433	26213	-2499	27634	-2579	28646	-2624	9
39188	1306	29774	-2683													92
39188	1311	831216	900	49	-2817		1739	2217	1758	2189	1761	2190	1822	2251		3
39188	1312	1923	2024	2011	1695	2094	1443	2202	1234	2207	1242	2392	1078	2648	893	16
39188	1313	2850	590	3121	327	3643	-173	3979	-538	4323	-636	4675	-594	5145	-633	89
39188	1314	5604	-422	6213	-474	7025	-740	7765	-1013	8437	-1273	9240	-1410	9921	-1434	35
39188	1315	10667	-1397	11370	-1346	11372	-1349	12080	-1331	12564	-1328	13236	-1358	14087	-1424	28
39188	1316	14981	-1523	15803	-1621	16466	-1689	17590	-1807	18506	-1902	19524	-1998	20320	-2080	74
39188	1317	20338	-2086	20732	-2119	21339	-2169	22201	-2249	22533	-244	227420	-2567	28015	-2596	69
39188	1318	29291	-2656	30916	-2753	31991	-2817									89 504

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Table B1. (Continued)

39188	1321831227	1000	47-2743	1834	2266	2087	1457	2263	1076	2387	1064	76					
39188	1322	2762	704	3181	241	3681	-180	3936	-508	4179	-644	4880	-745	5205	-775	75	
39188	1323	5633	-806	6075	-596	6392	-418	6591	-477	7237	-665	7953	-976	8588	-1261	65	
39188	1324	9068	-1397	9473	-1441	9802	-145110100	-144410423	-143210881	-140111303	-1363	47					
39188	132511731	-135012375	-132912990	-133613437	-136414000	-141314724	-148815174	-1539	23								
39188	132615531	-158316126	-165016690	-171517219	-177318047	-185918859	-194519717	-2015	29								
39188	132720430	-209222104	-223023201	-231324373	-239525241	-244626470	-251128636	-2623	1								
39188	132830903	-2743										88					
39188	1331840104	915	31-2656	1808	2261	2001	1895	2092	1456	2300	1114	40					
39188	1332	2631	825	3059	497	3511	-71	3895	-330	4827	-724	5533	-871	6195	-841	80	524
39188	1333	6907	-1039	7633	-823	8703	-1237	9694	-143211284	-134812362	-133013598	-1396	2				
39188	133414731	-150715938	-164617366	-181518550	-191819719	-201520877	-212622167	-2235	39								
39188	133523340	-231724538	-240525768	-247627044	-255828080	-260129112	-2656	32									
39188	1341840117	845	46-2756	2092	1456	2330	1088	2554	805	2573	777	5					
39188	1342	2885	526	3226	220	3635	-341	4009	-559	4397	-689	4724	-771	5101	-941	26	
39188	1343	5563	-908	5967	-643	6448	-592	7039	-808	7773	-1059	8615	-1281	9106	-1355	90	
39188	1344	9768	-138110426	-134511062	-128711775	-125612463	-126313283	-133313962	-1403	86							
39188	134514673	-149415291	-156616074	-165416908	-174217849	-184018572	-189619188	-1948	66								
39188	134619998	-201820821	-209821671	-217022523	-224023251	-229723905	-233824986	-2419	7								
39188	134726077	-248326929	-253027819	-258028531	-261329194	-266629977	-269931069	-2756	2	355							
39188	1351840123	1350	39-2777	1713	2113	1835	2336	1941	2137	2014	1889	70					
39188	1352	2091	1470	2316	1098	2317	1142	2741	684	2748	656	3421	-102	3896	-611	27	
39188	1353	4552	-783	5366	-444	5957	-493	6662	-715	7552	-1027	8683	-1298	9512	-1370	38	
39188	135410383	-133311311	-126112207	-126113399	-135314486	-147515549	-160216742	-1723	15								
39188	135517868	-184118873	-193019970	-202121035	-211922042	-220323462	-230724453	-2385	47								
39188	135625559	-245526590	-251527780	-257728885	-264229922	-269030778	-274531286	-2777	84								
39188	1371840210	850	34-2757	1821	2291	1933	2073	2092	1478	2204	1258	16					
39188	1372	2368	1056	2774	602	3342	-52	3974	-683	4734	-680	5371	-509	6152	-620	47	
39188	1373	6984	-881	8121	-1201	9380	-134310515	-129011716	-125112606	-129113881	-1418	23					
39188	137415022	-154016202	-167317157	-176518136	-185619461	-196620535	-207321532	-2150	5	372							
39188	137522628	-224423579	-230624609	-237525622	-244426809	-251628004	-257828951	-2633	42								
39188	137630129	-270031158	-2757									8					
39188	1381840216	1315	38-2718CV.10E	1831	2346	1885	2269	1951	2097	2012	1855	38					
39188	1382	2093	1439	2183	1258	2408	1000	2674	741	3029	389	3444	-106	3910	-589	21	
39188	1383	4304	-749	4906	-881	5455	-901	6532	-594	7020	-577	7775	-812	8578	-1205	20	
39188	1384	9437	-137410335	-137311320	-131511957	-129914069	-142115308	-156516614	-1711	77							
39188	138517728	-182418905	-192920082	-203421081	-212222110	-220723216	-228824372	-2370	31								
39188	138625412	-243126572	-250227626	-256228679	-262329768	-268130405	-2718	30									
39188	1391840224	1200	40-2705AB	1951	2097	2012	1855	2093	1439	2183	1258	28					
39188	1392	2408	1000	2473	927	2779	657	3195	264	3640	-297	3967	-584	4461	-803	62	357
39188	1393	5065	-928	5530	-929	5964	-828	6398	-590	6900	-567	7444	-671	8032	-957	37	
39188	1394	8747	-1252	9439	-137310394	-137011460	-132512446	-131413571	-137414611	-1493	33						
39188	139515803	-162716878	-175017988	-185419079	-195320130	-204621173	-213522042	-2202	64								
39188	139622938	-226223836	-233224894	-241025843	-246126912	-253128164	-259029003	-2640	53								
39188	139730121	-2705										99					
39188	1401840308	1130	40-2698	1761	2195	1874	2234	1972	1921	2087	1476	60					
39188	1402	2191	1258	2352	1071	2703	693	3128	332	3749	-440	4107	-646	4566	-807	59	
39188	1403	5027	-921	5473	-951	6011	-873	6570	-579	6971	-503	7535	-704	8125	-961	59	

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Table B1. (Continued)

39188	1404	8878-1259	9467-137310387-138211295-134912287-133113248-135714432-1459	41													
39188	140515389-157116322-168117450-179418429-189119516-198420684-209021836-2179	1	506														
39188	140622933-226623879-233324917-240226104-248027028-253127936-257728946-2631	49															
39188	140729961-2698	96															
39188	1411840320	1545	45-2655	1759	2188	1831	2340	1900	2234	1990	1979	62					
39188	1412	2040	1710	2098	1439	2193	1255	2445	1065	2736	739	3090	415	3502	-58	85	
39188	1413	3873	-494	4328	-658	4737	-772	5125	-641	5441	-399	5745	-437	6111	-542	73	
39188	1414	6528	-643	6957	-775	7752-1010	8384-1163	8993-1271	9751-133810452-1338	94							
39188	141511322-131712078-131712946-135414104-145715110-156215914-165816887-1754	86															
39188	141617676-182618651-191019537-199420140-204221153-213022130-220023216-2290	21															
39188	141724010-234325242-242726240-248726996-252627996-258329261-2655	92															
39188	1421840330	1345	32-2028CV.50	1759	2188	1831	2340	1900	2234	1990	1979	27	685				
39188	1422	2040	1710	2098	1439	2193	1255	2399	1051	2726	841	3148	589	3809	-210	78	
39188	1423	4069	-632	4326	-705	4729	-572	5063	-436	5503	-436	6142	-552	6717	-769	77	
39188	1424	7501-1014	8225-1176	8986-1299	9827-132710654-131211552-130312463-1336	89											
39188	142513529-142014528-151815635-163716688-175817746-184318815-193319840-2028	24															
39188	1431840403	1255	32-2476D07	1755	2186	1878	2083	2087	1454	2265	1172	77					
39188	1432	2397	1022	2981	623	3457	94	3818	-446	4126	-568	4527	-483	4958	-351	76	
39188	1433	5448	-487	6077	-678	6590	-831	8033-1168	8905-1289	9643-131910563-1306	87						
39188	143411547-129512470-133813723-143814979-156416079-168517337-180118616-1911	83															
39188	143519647-198920599-207821637-215922699-225323547-231024921-238926185-2476	52															
39188	1441840406	1055	35-2659CV.120	1755	2186	1878	2083	2087	1454	2265	1172	2	645				
39188	1442	2377	1059	2397	1022	2613	924	3192	500	3677	-110	4078	-408	4578	-603	16	
39188	1443	5279	-876	5939	-844	6412	-660	7097	-593	7778	-897	8918	-127510042-1307	85			
39188	144410989-130511821-131612855-136814227-150115510-164116865-176318096-1872	68															
39188	144519245-196220546-208121630-216722918-226524127-235325237-242626324-2488	53															
39188	144627411-254728480-260929446-2659	67															
39188	1451840413	1115	38-2936C11300E	1755	2186	1878	2083	2087	1454	2265	1172	42					
39188	1452	2522	983	2990	537	3505	28	4048	-353	4554	-644	5108	-853	5655	-891	83	
39188	1453	6284	-596	7145	-663	7837	-973	8832-1251	9640-129210633-129711529-1302	26							
39188	145412481-134813659-144014958-157816163-170817359-181818599-190219522-1995	59															
39188	145520670-208621760-217822995-227124268-235325383-242926453-248427577-2558	16	515														
39188	145628684-262029675-267330683-272231684-280632645-287133591-2936	80															
39188	1461840425	940	37-2775CV.1E	1828	2329	1924	2172	1999	1808	2108	1398	63					
39188	1462	2228	1197	2407	1002	2778	693	3239	240	3747	-374	4256	-580	4626	-607	48	
39188	1463	4776	-625	5189	-841	5868	-767	6361	-537	7106	-769	7987-1068	8681-1244	20			
39188	1464	9503-127210520-128611534-130512693-137913823-147414948-158416221-1720	65														
39188	146517420-182718732-192319659-200921416-214822675-224223858-232925230-2419	26															
39188	146626351-249427594-256128772-262629942-269231293-2775	5															
39188	1471840509	1010	38-2810AB	1828	2329	1924	2172	1999	1808	2108	1398	57					
39188	1472	2228	1197	2344	1072	2737	694	3176	228	3651	-253	4093	-542	4540	-675	79	
39188	1473	4877	-859	5174	-925	5554	-892	6030	-872	6478	-701	6925	-705	7279	-813	57	500
39188	1474	7957-1026	8814-1215	9832-126310873-128111985-132813083-141714533-1547	21												
39188	147515904-169217183-180518423-189219798-201021128-211922390-222823714-2317	82															
39188	147624975-240126177-247327553-255428915-262930091-269631839-2810	4															
39188	1481840515	900	34-2692CH15.25SB4	1819	2315	1947	2157	2105	1417	2423	991	8					
39188	1482	2779	644	3238	102	3694	-292	4040	-522	4540	-722	4979	-881	5478	-900	16	
39188	1483	5882	-924	6378	-743	6945	-733	7777-1002	8768-1219	9483-126810637-1278	96						

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Table B1. (Continued)

39188	148411662-132612774-140614127-152615509-166816998-179718445-191119748-1998	24
39188	148520950-211122288-221823397-230424773-239225925-245327212-253428083-2602	12
39188	148629000-264330070-2692	5
39188	1491840524 1225 34-2843 1827 2310 1970 2024 2102 1446 2250 1198	71 339
39188	1492 2357 1073 2860 530 3372 46 3834 -497 4202 -599 4729 -556 5308 -663	78
39188	1493 6025 -807 6884 -693 7500 -854 8507-1155 9392-123010502-126011672-1312	88
39188	149412950-141714225-153215749-169017140-181618488-190819732-201121206-2134	81
39188	149522461-223623642-231924905-239626216-248427618-254928560-260729780-2689	92
39188	149631070-275132362-2843	4
39188	1501840601 1235 30-2858D03 1830 2275 1975 1824 2165 1302 2409 1001	71
39188	1502 2878 536 3464 37 3787 -357 4066 -404 4745 -500 5301 -444 5902 -441	30
39188	1503 6775 -718 7690 -980 8617-1195 9694-124910698-125811884-132313094-1430	38
39188	150414541-157915964-170617324-182120030-202521516-214822857-227324298-2360	69
39188	150525675-245626982-252028382-259330552-272232361-2858	88 639
39188	1511840614 1000 33-2877 1824 2386 1922 2183 2107 1438 2413 999	43
39188	1512 2858 654 3207 443 3722 -82 4135 -332 4464 -282 4950 -366 5533 -509	3
39188	1513 6281 -658 7171 -854 7942-1055 8831-1216 9956-126111268-128912353-1361	31
39188	151413747-149315195-164416706-178418176-188919553-201220948-211022392-2241	48
39188	151523463-232124983-239626159-247427522-255928839-264729955-271031119-2764	14
39188	151632313-2877	90
39188	1521840627 925 45-2855 1657 2018 1806 2267 1813 2266 1952 1990	73
39188	1522 2124 1374 2283 1156 2408 1022 2548 827 2852 693 2855 685 2859 696	81
39188	1523 3124 612 3210 558 3311 464 3315 461 3684 24 3985 -186 4115 -193	79
39188	1524 4473 -338 5057 -425 5773 -510 6460 -746 7121 -900 7883-1065 8460-1168	69 531
39188	1525 9396-122810058-124111210-129512410-136513661-147015039-162316137-1740	41
39188	152617355-181318523-190319551-198520723-207922266-222623617-231324817-2405	18
39188	152726044-247327245-253028502-261629690-267330761-272832280-2855	38
39188	1531840710 935 48-2866 1583 1883 1830 2430 1831 2471 1978 2022	41
39188	1532 1982 2023 2100 1400 2296 1139 2554 816 2555 820 2615 762 2871 702	7
39188	1533 2957 705 3180 521 3223 458 3278 420 3685 -30 4149 -423 4489 -525	6
39188	1534 5003 -454 5495 -474 5842 -576 6338 -775 7049 -928 7051 -929 7929-1108	2
39188	1535 8635-1199 9613-124210716-127411879-134112686-141313522-146914877-1605	79
39188	153615931-171917298-183118225-189819535-198120623-209421716-217923069-2276	60
39188	153724304-235724666-238626178-248527352-255028464-262329766-268430606-2734	68 360
39188	153831316-278232531-2866	97
39188	1551840727 830 49-2834D51 1623 1934 1831 2401 1846 2274 1945 2106	68
39188	1552 2123 1378 2284 1155 2535 855 2536 832 2822 708 3247 543 3566 264	17
39188	1553 3885 -62 4079 -235 4449 -257 4521 -269 5068 -467 5458 -588 6438 -838	88
39188	1554 6912 -932 7657-1066 8140-1144 8536-1179 9317-122110150-124211162-1282	43
39188	155511791-132612428-138013469-145614251-154814834-159815756-169816636-1765	52
39188	155617436-183018387-190719393-198619771-201520944-211721925-218823228-2283	37
39188	155724421-236925531-243826633-250027931-257428779-263329393-266230379-2717	9
39188	155831242-276731914-281532170-2834	25
39188	1561840810 815 45-2885 1539 1825 1593 2068 1638 2077 1836 2487	33 469
39188	1562 1914 2294 2088 1458 2218 1225 2288 1124 2608 749 2647 755 2912 712	77
39188	1563 2928 712 3142 587 3272 573 3445 437 3834 -18 4087 -137 4423 -240	23
39188	1564 4932 -409 5552 -663 5967 -768 6807 -909 7346-1016 8073-1131 8920-1210	61
39188	1565 9865-123610685-126111711-131612170-135612972-141914405-155815150-1637	42

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Table B1. (Continued)

39188	156616543-175618112-187919562-199919620-200320773-209422154-219823722-2325	51
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39188	1572 2009 1768 2123 1394 2345 1093 2350 1075 2627 760 2654 725 3025 711	32
39188	1573 3118 581 3465 210 3630 2 3888 -54 4256 -140 4755 -252 5170 -385	47
39188	1574 5788 -709 6587 -901 7502-1066 8432-1186 9590-123310234-125311226-1288	86 480
39188	157512546-139314027-152915029-162816456-175417995-188419525-199820714-2096	23
39188	157622255-222523809-233325019-240426257-247827553-256028714-261429697-2669	82
39188	157730962-274932081-2827	82
39188	1581840906 1500 39-2691	73
39188	1582 2009 1768 2123 1394 2345 1093 2350 1075 2423 977 2812 693 3202 415	64
39188	1583 3620 105 4150 -281 4490 -399 4847 -273 5084 -308 5701 -665 6230 -934	34
39188	1584 6668 -882 7325-1024 8309-1177 9313-122910252-125311592-131313048-1435	94
39188	158514404-156215564-168017119-181218407-191619782-202321109-214022500-2232	41
39188	158623676-232724864-241025926-247027166-253128329-259729497-267530000-2691	23
39188	1591840910 1030 32-2044GH	60 576
39188	1592 2088 1449 2301 1132 2404 967 2718 722 2784 702 3009 706 3323 352	77
39188	1593 3377 356 3828 -300 4111 -400 4537 -388 5101 -448 5437 -421 5815 -447	1
39188	1594 6542 -726 7502-1084 8567-1201 8801-1214 9640-123510139-126011480-1322	18
39188	159512707-142813841-152815013-163616275-174817505-185218849-194620027-2044	91
39188	1601840921 940 48-2866	60
39188	1602 1934 1987 2148 1353 2349 1093 2519 886 2631 781 2816 785 3006 751	86
39188	1603 3145 547 3184 537 3330 320 3647 -112 4054 -427 4357 -521 4822 -665	6
39188	1604 5218 -666 5613 -476 5885 -473 6321 -547 7020 -822 7347 -939 8066-1116	6
39188	1605 8800-1190 9750-122810744-127611803-134512384-140113858-152714751-1618	12
39188	160615320-166516346-175517252-181718702-193419860-202220219-204621350-2146	92 449
39188	160722604-224323673-233624637-237825659-246227559-254629051-263229480-2658	15
39188	160830969-275232573-2866	48
39188	1611841002 955 50-2757	59
39188	1612 1933 2127 2005 1906 2103 1419 2202 1241 2297 1141 2411 1018 2485 937	64
39188	1613 2611 853 2788 645 2918 498 3294 57 3781 -513 3959 -619 4276 -679	60
39188	1614 4707 -788 4713 -808 5117 -801 5615 -768 6016 -554 6433 -547 6781 -613	13
39188	1615 7395 -817 7493 -849 8231-1042 8772-1125 9546-117510200-121011274-1290	41
39188	161612166-137312394-139813386-150714370-159114834-162316168-173717323-1829	87
39188	161718544-193519890-203721423-214922801-226124077-235424859-239126054-2487	72
39188	161827185-253028459-261829741-268331276-2757	7 466
39188	1631841015 1100 30-1163	24
39188	1632 2086 1495 2104 1443 2263 1250 2320 1191 2386 1097 2645 853 2731 807	23
39188	1633 2979 586 3253 225 3785 -577 3896 -688 4118 -852 4361 -835 4662 -768	6
39188	1634 4918 -647 5175 -585 5309 -519 5727 -468 5951 -436 6537 -502 7216 -658	75
39188	1635 7670 -796 8426 -988 8545 -987 9041-1085 9885-1163	76
39188	1641841017 1515 38-2418GV	50
39188	1642 2086 1495 2104 1443 2263 1250 2320 1191 2672 870 2731 809 3889 -753	75
39188	1643 4263 -891 4629 -773 4874 -408 5063 -365 5534 -441 6112 -512 6574 -608	19
39188	1644 7160 -740 7704 -880 8472-1008 9213-1097 9998-118510602-123111174-1280	51
39188	164512024-135513086-143514111-154515191-164116454-174917569-185418543-1953	83 482
39188	164619553-203420890-214422184-223623253-229924237-237024954-2418	93
39188	1651841029 1120 45-2847	69

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Table B1. (Continued)

39188	1652	2294	1206	2320	1155	2433	1054	2590	1012	2715	902	2958	757	3178	557	90
39188	1653	3642	110	3954	-423	4246	-503	4394	-387	4622	-369	5104	-462	5599	-525	94
39188	1654	6064	-586	6931	-709	7422	-795	8594	-986	8738	-1007	9965	-11491	10117	-1157	14
39188	165510886	-122711846	-131712275	-136513467	-148414396	-158014752	-161216070	-1745								48
39188	165617326	-185518466	-196619799	-206820898	-214822500	-225724001	-235824481	-2391								87
39188	165725992	-247227466	-255428580	-262429750	-268830991	-276832206	-2847									75
39188	1661841119	1100	44	-2400		1753	2195	1807	2248	1878	2169	1943	1978			1
39188	1662	2103	1440	2256	1250	2409	1090	2527	1009	2606	1020	2802	907	2855	836	1 572
39188	1663	3086	591	3538	239	3641	150	4019	-271	4484	-461	4726	-450	5309	-508	70
39188	1664	5759	-431	6361	-511	7012	-740	7244	-807	7979	-921	8701	-1018	9583	-1119	22
39188	166510117	-117811024	-127111847	-135112423	-141713423	-151014765	-164015565	-1721								95
39188	166616765	-182817706	-189318578	-196119310	-203019557	-204020191	-210220982	-2159								72
39188	166721817	-221422733	-227423393	-231923926	-235824770	-2400										72
39188	1671841128	915	53	-2754		1671	2082	1756	2174	1820	2237	1907	2095			95
39188	1672	1964	1875	2104	1442	2261	1223	2326	1177	2438	1047	2515	1064	2605	1018	25
39188	1673	2649	993	2710	934	2858	790	2925	716	2992	646	3075	472	3270	278	58
39188	1674	3621	-61	4096	-353	4449	-502	4772	-582	5174	-632	5478	-581	5956	-570	92
39188	1675	6244	-612	6470	-641	7074	-665	7896	-727	8672	-900	9623	-1081	9952	-1136	79 680
39188	167610624	-121911461	-131212458	-141913505	-151814564	-163015644	-172516704	-1821								40
39188	167717320	-187718052	-194018996	-200919973	-206820970	-216022067	-223223184	-2296								48
39188	167824383	-239225431	-243826671	-252927848	-256128962	-262530040	-270331067	-2754								17
39188	1681841217	1155	49	-2777		1718	2117	1820	2325	1961	2073	2265	1243			47
39188	1682	2435	1071	2529	1034	2587	981	2606	995	2835	831	2921	671	3105	465	68
39188	1683	3197	388	3570	37	4036	-223	4517	-333	5067	-582	6238	-664	7098	-675	97
39188	1684	7753	-777	9128	-998	9567	-106410281	-116211167	-126811957	-136012632	-1440					86
39188	168513485	-151114157	-158314674	-164815165	-169815910	-175116811	-184717476	-1890								32
39188	168618235	-195019038	-202119875	-207120772	-214421418	-218122138	-225522990	-2291								28
39188	168723684	-234524506	-240425426	-244726301	-249027008	-253327863	-258528667	-2634								87 550
39188	168829458	-267630383	-274531171	-2777												39
39190	291810717	1200	40	-3070		1720	2360	1900	2200	1910	2090	2020	1170			9
39190	292	2390	650	2530	510	3330	150	3630	-120	3650	-160	3980	-440	4240	-510	35
39190	293	4480	-540	4700	-640	5030	-730	5390	-840	5720	-720	6400	-600	7200	-870	67
39190	294	8140	-1110	9170	-123010080	-127010200	-129011560	-133013100	-146013130	-1460						31
39190	29514440	-158015440	-169023550	-228024920	-239026020	-245027660	-257028950	-2640								0
39190	29629980	-272031660	-282033050	-288033950	-291033990	-292034580	-298035340	-3000								70
39190	29736810	-3070														92
39190	371810823	900	53	-2400		1610	2130	1720	2380	1880	2270	1930	2170			45
39190	372	1990	1750	2040	1480	2180	1200	2300	1020	2410	890	2710	680	3000	400	7 395
39190	373	3280	190	3520	-30	3730	-160	3990	-330	4360	-450	4960	-620	5220	-660	31
39190	374	5550	-770	5760	-800	5940	-820	6000	-800	6190	-800	6390	-790	6450	-780	99
39190	375	6620	-770	6730	-760	6770	-770	7000	-710	7340	-690	7690	-820	8020	-950	44
39190	376	8700	-1140	9010	-1170	9230	-1190	9570	-123010260	-125010800	-127011450	-1300				78
39190	37712030	-135012890	-143013710	-148014550	-161015080	-166016660	-182017640	-1900								18
39190	37818980	-199020190	-206021250	-213022170	-219023410	-228024550	-233025340	-2400								52
39190	461811016	1300	40	-2210		1840	2290	1930	2080	2040	1500	2170	1200			31
39190	462	2300	1090	2370	1020	2410	1000	2620	800	2890	570	3200	220	3520	-220	7
39190	463	3850	-270	4270	-560	4670	-810	5000	-880	5430	-890	5770	-860	6160	-820	68
39190	464	6360	-810	6690	-780	6980	-760	7380	-710	7610	-710	7910	-790	8470	-980	49 477

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Table B1. (Continued)

39190	465	8820-1060	9320-1150	9910-121010330-125013840-159013840-160014530-1630	52												
39190	466	14530-163016690-184017880-193019030-197020050-203020710-207021920-2180	90														
39190	467	22820-2210	41														
39190	481	811022	1600	51-2530	1660	2220	1740	2390	1900	2230	1990	1690	83				
39190	482	2150	1250	2340	1060	2550	850	2790	630	2790	600	3130	290	3320	120	35	
39190	483	3510	-50	3650	-260	3840	-340	4110	-510	4360	-660	4650	-750	4930	-790	4	
39190	484	5160	-810	5420	-830	5770	-850	6010	-830	6420	-810	6740	-710	6990	-660	93	
39190	485	7320	-670	7700	-760	8050	-860	8420	-960	8920-1060	9330-1110	9810-1190	90				
39190	486	10260-123011120-132011870-140012810-149013840-161014880-170015840-1780	42														
39190	487	17020-187017920-192018700-199019670-204020340-208021280-216022370-2200	87	617													
39190	488	23210-228024120-234024960-240026030-247026840-2530	0														
39190	501	811103	900	54-2890	1720	2370	1730	2380	1860	2280	1940	2090	95				
39190	502	1980	1780	2040	1480	2210	1180	2450	840	2600	710	2610	700	2850	460	7	
39190	503	3150	230	3390	-50	3630	-280	3840	-420	4120	-570	4460	-790	4720	-890	8	
39190	504	4990	-970	5250	-950	5460-1050	5750	-960	6000-1000	6240	-940	6370-1000	67				
39190	505	6680	-980	6980	-890	7410	-860	7730	-860	7990	-840	8430	-770	8900	-780	99	
39190	506	9520	-910	9980-105010490-115011220-127012110-139013110-152014140-1620	82												
39190	507	15230-172016440-181017670-191018860-200020250-208021600-216022880-2250	20														
39190	508	24150-234025470-243026730-253028070-258029510-270030980-276032400-2830	53														
39190	509	33490-2890	44	475													
39190	511	811110	1430	43-2700	1710	2370	1720	2370	1720	2370	1880	2240	71				
39190	512	1950	2010	2010	1550	2230	1140	2400	890	2460	900	2660	630	2680	620	88	
39190	513	3050	290	3400	-80	3760	-340	4130	-510	4550	-850	4860	-910	5200	-960	91	
39190	514	5630	-990	6110	-990	6560	-970	6990	-900	7520	-860	8090	-760	8640	-770	10	
39190	515	9350	-910101070-110011020-127011850-139012870-150013730-159015050-1700	13													
39190	516	16210-181017430-189018970-199020210-207021520-216023280-228024620-2360	35														
39190	517	25860-245027300-255028600-261029880-2700	77														
39190	521	811116	1000	49-2580	1650	2180	1710	2360	1820	2310	1890	2260	8				
39190	522	1940	2100	1980	1590	2000	1320	2080	1140	2200	900	2290	720	2530	420	31	
39190	523	2840	70	3120	-80	3420	-130	3610	-140	3830	-210	4140	-310	4500	-470	11	435
39190	524	4910	-750	5360	-930	5740	-970	6240	-990	6730-1040	7170-1110	7680-1160	85				
39190	525	8120-1200	8590-1240	9050-1250	9480-1240	9870-119010360-113010750-1080	26										
39190	526	11250-105011770-110012480-122013140-135013920-148014740-159015830-1720	65														
39190	527	16860-182017880-190018910-197020000-205021410-216022520-223023490-2310	86														
39190	528	24900-241026250-250027460-2580	58														
39190	541	811123	1200	43-2520	1660	2250	1720	2380	1880	2260	1940	2120	6				
39190	542	1960	1920	2000	1340	2020	1260	2110	1060	2190	910	2390	620	2510	460	90	
39190	543	2800	300	3110	30	3480	-160	3910	-230	4360	-410	4720	-630	5080	-830	34	
39190	544	5520	-940	5960	-980	6430-1000	6930-1050	7470-1140	8010-1190	8570-1230	40						
39190	545	9100-1240	9720-120010390-110011020-105011640-109012560-125013280-1380	73	563												
39190	546	14170-153015290-168016330-177017320-185018310-193019510-200020940-2130	22														
39190	547	22250-221023510-229024890-242026320-2520	82														
39190	551	811127	900	46-2100	1720	2380	1760	2350	1800	2310	1840	2300	3				
39190	552	1880	2260	1910	2180	1930	2130	1960	1940	2040	1190	2140	950	2330	680	51	
39190	553	2630	410	2920	230	3240	20	3540	-200	3820	-300	4160	-370	4430	-450	24	
39190	554	4720	-520	5170	-700	5450	-790	5790	-880	6420	-990	7080-1110	7630-1200	44			
39190	555	8170-1270	8780-1340	9280-1350	9800-129010380-119010790-111011170-1060	81											
39190	556	11540-105011980-108012270-112012700-119013390-132014210-148014970-1590	91														

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Table B1. (Continued)

39190	55715800-169016590-177017360-185018120-191018800-197019650-205020390-2100	76
39190	561811207 1100 43-2727 1723 2369 1724 2370 1847 2301 1939 2100	86 560
39190	562 1988 1501 2031 1231 2141 957 2343 739 2556 571 2674 498 3041 166	5
39190	563 3397 -220 3639 -560 3933 -553 4224 -324 4631 -393 5121 -624 5677 -881	32
39190	564 6239 -964 6872-1103 7542-1219 8219-1334 8840-1382 9628-130110420-1080	91
39190	56511140-100511974-108912822-125513782-141614639-155815616-167916662-1791	71
39190	56617706-188618983-199320182-207621413-216122493-224823674-232424722-2409	11
39190	56726097-248427307-257628647-263730014-2727	5
39190	581820105 1500 41-2829 1642 2194 1719 2380 1809 2310 1878 2260	24
39190	582 1934 2092 2017 1266 2251 867 2305 823 2618 538 3017 190 3429 -361	70
39190	583 3705 -645 4108 -603 4471 -617 4862 -411 5256 -492 5704 -721 6229 -993	79
39190	584 6859-1154 7520-1276 8242-1356 8870-1371 9780-125810632-114311499-1105	6 394
39190	58512394-117013163-128313397-132015009-159716888-182318750-197720480-2100	42
39190	58622407-223924085-236824788-242425619-246625983-250327727-260829280-2670	74
39190	58730567-272732075-2829	15
39190	591820120 1545 38-2740DS3 1741 2369 1835 2313 1945 2123 1993 1646	53
39190	592 2047 1251 2130 1005 2356 809 2645 541 2748 423 3128 37 3491 -422	27
39190	593 3789 -438 4165 -424 4640 -290 5201 -456 5687 -788 6183 -995 6930-1157	50
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39190	59513208-131114250-143215279-160716422-172617824-187118919-196820114-2075	69
39190	59621590-216723026-226625417-243926620-252629642-267830579-2740	54
39190	601820125 1420 45-2859 1722 2385 1881 2281 1933 2143 1975 1651	66 545
39190	602 2043 1222 2324 832 2586 570 2916 269 3173 -27 3482 -366 3713 -608	35
39190	603 4110 -505 4569 -524 4935 -428 5445 -552 6007 -814 6764-1143 7391-1268	35
39190	604 8066-1339 8600-1361 9208-1309 9872-121910540-113411209-108511957-1133	60
39190	60512709-124813391-134614224-149015181-163016124-174516997-183417963-1911	81
39190	60618880-199119779-205620852-214321803-219622795-227623935-235425008-2433	6
39190	60726231-251827542-258428910-266030235-272931430-278632918-2859	10
39190	611820128 1020 48-2850 1717 2385 1863 2283 1931 2152 1984 1614	53
39190	612 2043 1208 2170 948 2709 391 3077 63 3322 -332 3647 -578 4046 -667	21
39190	613 4330 -507 4566 -505 4868 -387 5334 -472 5798 -667 6222 -950 6680-1125	68
39190	614 7355-1252 7852-1304 8313-1331 8774-1332 9196-1314 9620-127310142-1215	26 395
39190	61510667-114211321-109611857-111312444-117713257-131114081-145114926-1582	9
39190	61615688-167916739-180517672-189618759-198019719-204821214-217522625-2259	97
39190	61724193-237225358-246326503-254227579-260228547-264629601-270730519-2751	62
39190	61831573-278732499-2850	7
39190	621820208 1110 47-2879 1720 2388 1848 2290 1924 2168 1944 1851	19
39190	622 2041 1240 2130 995 2273 872 2423 676 2681 468 3029 125 3322 -190	33
39190	623 3486 -542 3821 -490 4146 -280 4508 -356 4960 -485 5375 -631 5854 -825	28
39190	624 6346 -983 6874-1138 7447-1253 7958-1301 8502-1306 8933-1296 9591-1219	97
39190	62510204-113811068-108611798-112212630-124313530-138514399-151715320-1647	61
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39190	62724558-239925880-248626998-255728214-262829357-268730812-277231880-2809	73
39190	62833255-2879	95
39190	641820224 830 42-2753 1720 2388 1848 2290 1924 2168 1944 1851	45
39190	642 2005 1324 2203 956 2431 672 2628 489 2867 289 3160 -220 3392 -490	14
39190	643 3716 -255 3957 -198 4464 -290 4901 -439 5283 -580 5799 -777 6377 -978	15
39190	644 7064-1198 7633-1314 8365-1364 8829-1353 9506-128910285-121211285-1114	11

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Table B1. (Continued)

39190	64512337-119213102-130014066-145515391-164616456-177517621-189318643-1983	69
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39190	64728375-262929559-269830488-2753	75
39190	651820302 1200 26-1350 1720 2388 1848 2290 1924 2168 1944 1851	15 501
39190	652 2005 1324 2203 956 2431 672 2628 489 2806 234 3223 230 3595 -352	57
39190	653 3999 -311 4433 -398 4983 -471 5529 -583 6102 -854 6689-1088 7321-1256	96
39190	654 8028-1345 8799-1350 9458-130610182-121910895-113211533-111212311-1176	21
39190	65512950-1264	30
39190	661820308 1100 36-2645 1727 2403 1868 2280 1934 2158 1982 1661	82
39190	662 2009 1369 2203 956 2316 776 2686 439 3094 -1 3349 -354 3639 -369	94
39190	663 4157 -481 4628 -490 5253 -501 5982 -820 6694-1119 7554-1307 8178-1344	11
39190	664 8888-1340 9600-128310377-118811215-111112049-116412994-128913863-1425	57
39190	66514776-156715952-172517127-184918516-196319873-206821349-218322915-2297	34
39190	66624359-238525759-249327048-254128319-2645	17 499
39190	671820317 1145 42-2814 1584 2077 1645 2188 1700 2368 1807 2316	65
39190	672 1921 2138 1988 1595 2042 1212 2275 843 2299 805 2681 421 3101 183	14
39190	673 3374 -46 3536 -332 3895 -381 4387 -348 5012 -480 5509 -543 6238 -915	72
39190	674 6974-1192 7706-1333 8308-1335 9232-1306 9910-121010766-111011492-1124	34
39190	67512435-122713340-135714226-148315160-162016345-175617183-185118707-1985	17
39190	67620396-210921742-221523198-231024557-239425821-247827060-255428192-2615	30
39190	67729390-268330694-275431964-2814	81
39190	681820324 1000 39-2694CV.12010 1721 2386 1839 2329 1925 2151 1958 1808	25
39190	682 2021 1316 2160 1018 2358 750 2368 750 2667 551 3243 80 3528 -287	31
39190	683 3805 -249 4232 -278 4689 -336 5172 -482 5751 -705 6287 -952 6914-1161	27 396
39190	684 7719-1302 8321-1327 9009-1290 9686-121710308-112010959-110111718-1126	65
39190	68512593-123813535-137914669-154115730-168217126-183718540-195820046-2080	86
39190	68621460-218322899-228324156-237625489-245427001-254928431-262229927-2694	6
39190	701820408 1000 39-2849 1610 2115 1723 2361 1869 2274 1929 2125	84
39190	702 1972 1636 2049 1258 2420 685 2876 477 3242 56 3617 -416 3967 -569	10
39190	703 4429 -745 4834 -498 5638 -514 6243 -869 6801-1165 7534-1296 8236-1300	70
39190	704 9007-1285 9740-118810504-111511189-112512031-120812855-131113718-1445	26
39190	70514905-160416055-173217500-189018979-200920342-210521747-221923060-2303	29
39190	70624441-239125726-247527047-256228341-263129775-271031184-278032659-2849	51
39190	721820419 1000 40-2884 1616 2122 1722 2379 1850 2305 1934 2133	84 511
39190	722 1986 1622 2062 1166 2230 908 2302 790 2666 635 3012 333 3499 -106	41
39190	723 3793 -482 4319 -543 4859 -420 5346 -487 5909 -695 6565-1051 7265-1254	83
39190	724 8036-1293 8582-1294 9194-1239 9786-115610420-111011112-113511914-1205	9
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39190	72622928-227724438-239125903-247827210-255728964-264430491-274332004-2819	44
39190	72733155-2884	99
39190	731820503 1200 43-2839D01 1612 2125 1720 2382 1843 2305 1925 2140	93
39190	732 2037 1249 2257 871 2307 799 2625 694 3052 462 3510 -53 3887 -403	86
39190	733 4195 -319 4637 -349 5180 -447 5671 -620 6096 -775 6680-1006 7296-1214	58
39190	734 7883-1290 8449-1273 8642-1258 9391-117010009-110810623-112111212-1164	3 606
39190	73512015-124412744-133413691-145114656-157115928-173217202-184518369-1949	89
39190	73619719-205521279-216722699-227224056-236325461-246126922-254628354-2627	91
39190	73729676-270031119-278431818-280932249-2839	98
39190	741820517 1300 45-2809 1570 2019 1640 2194 1716 2417 1820 2337	10

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Table B1. (Continued)

39190	742	1923	2168	1959	1773	2047	1233	2238	941	2275	875	2516	745	2809	528	71
39190	743	3263	99	3566	-331	3930	-442	4350	-498	4749	-429	5303	-467	5798	-708	40
39190	744	6316	-954	6891	-1122	7502	-1250	8049	-1240	8575	-1189	9150	-1112	9694	-1087	69
39190	745	10420	-1097	10866	-11331	11466	-1191	12239	-12861	13140	-1397	14316	-1544	15408	-1671	96
39190	746	16498	-18091	17888	-1920	18994	-1993	20496	-2105	21962	-2210	23378	-2309	24739	-2393	90
39190	747	25940	-24662	27207	-2557	28474	-2608	29692	-2684	31055	-2753	32397	-2809			69 723
39190	751	820601	1000	43	-2791			1534	1931	1615	2127	1681	2331	1769	2350	83
39190	752	1914	2164	1956	1756	2066	1151	2277	887	2335	850	2393	821	2644	648	1
39190	753	3084	366	3570	-68	4031	-180	4454	-301	4969	-475	5505	-672	6260	-937	65
39190	754	6826	-1105	7487	-1233	8150	-1216	8828	-1143	9495	-1076	10122	-1074	10828	-1122	84
39190	755	11574	-1209	12428	-1313	13491	-1456	14663	-1577	16098	-1747	17653	-1887	18959	-1971	17
39190	756	20217	-2068	21645	-2172	22788	-2257	23925	-2320	25037	-2382	26188	-2468	27352	-2543	97
39190	757	28492	-2608	29632	-2665	30816	-2728	31937	-2791							44
39190	761	820616	1015	41	-2797			1538	1942	1633	2155	1701	2380	1815	2309	26
39190	762	1918	2139	1959	1747	2077	1124	2265	891	2361	859	2421	826	2788	490	61
39190	763	3241	179	3772	-69	4089	-141	4794	-290	5359	-532	5996	-804	6648	-1081	45 523
39190	764	7267	-1199	7782	-1187	8386	-1136	9161	-1087	9789	-1083	10453	-1145	11121	-1200	75
39190	765	11758	-1264	12416	-1347	13409	-1459	14413	-1579	15582	-1714	17068	-1851	18589	-1972	85
39190	766	20142	-2082	21592	-2190	23090	-2300	24836	-2410	26247	-2502	27667	-2585	28920	-2655	94
39190	767	30315	-2729	31659	-2797											10
39190	771	820623	1145	38	-2815			1604	2135	1702	2381	1817	2308	1924	2155	71
39190	772	1988	1559	2051	1207	2293	897	2300	870	2789	511	3343	94	3825	-147	42
39190	773	4412	-324	4929	-317	5592	-610	6292	-963	6772	-1126	7416	-1205	8093	-1161	3
39190	774	8957	-1096	9680	-1089	10349	-1156	11270	-1224	12197	-1329	13467	-1490	14734	-1630	69
39190	775	16293	-1793	17857	-1919	19489	-2063	21221	-2167	22689	-2268	24017	-2366	25591	-2457	27
39190	776	27055	-2552	28561	-2624	30070	-2726	31065	-2760	31066	-2763	32095	-2815			14 490
39190	791	820712	1325	42	-2825053			1569	2036	1652	2199	1721	2383	1824	2310	7
39190	792	1919	2149	1947	1866	2109	1072	2312	874	2356	850	2486	787	2910	532	84
39190	793	3485	133	3667	-91	4066	-136	4561	-261	5018	-433	5624	-666	6141	-915	53
39190	794	6760	-1147	7261	-1202	7846	-1171	8428	-1121	9103	-1114	9702	-1095	10373	-1161	57
39190	795	11200	-1237	12057	-1330	12946	-1422	14067	-1561	15204	-1692	16357	-1824	17902	-1940	16
39190	796	19235	-2033	20600	-2131	21850	-2219	23092	-2298	24173	-2367	25382	-2460	28264	-2625	2
39190	797	29535	-2705	30884	-2758	32379	-2825									94
39190	801	820722	1200	33	-2914			1633	2150	1740	2377	1917	2136	1975	1654	40
39190	802	2086	1093	2325	846	2420	869	2662	660	3165	325	3864	-59	4624	-353	17
39190	803	5313	-628	6103	-878	7053	-1181	7744	-1187	8771	-1102	9634	-1090	10672	-1183	58 428
39190	804	11863	-1299	12951	-1413	13988	-1549	15394	-1711	16923	-1852	18751	-1984	20292	-2112	86
39190	805	21980	-2229	23552	-2341	25023	-2447	26656	-2535	28218	-2621	29782	-2714	31559	-2798	10
39190	806	33393	-2914													16
39190	821	820803	1030	37	-2884D01			1625	2153	1721	2378	1909	2157	1989	1547	91
39190	822	2082	1107	2343	835	2385	826	2920	465	3454	256	4044	-162	4643	-467	19
39190	823	5107	-580	5669	-747	6472	-1058	7250	-1204	7929	-1155	8595	-1091	9419	-1081	12
39190	824	10136	-1130	10990	-1207	11964	-1303	12792	-1392	13711	-1507	14625	-1607	15721	-1733	22
39190	825	16811	-1838	18093	-1943	19819	-2068	21469	-2196	22792	-2279	24305	-2378	25669	-2458	60
39190	826	27444	-2572	28853	-2672	30104	-2724	32628	-2846	33331	-2884					95
39190	841	820824	850	39	-2915			1650	2185	1740	2383	1892	2212	2002	1491	90 501
39190	842	2075	1126	2314	862	2849	544	3327	249	3812	-39	4346	-196	4972	-472	19
39190	843	5414	-694	5896	-854	6581	-1094	7246	-1197	7884	-1163	8638	-1096	9241	-1082	77

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Table B1. (Continued)

39190	844	9956	-112910775	-118811690	-127612457	-136713380	-147414192	-156715196	-1686	96							
39190	84516354	-179817702	-192119261	-203120568	-213021972	-223523425	-232524876	-2411		38							
39190	84626300	-250127727	-258829016	-266430315	-274031748	-280933233	-287133771	-2915		23							
39190	851820901	1335	38	-2883	1631	2162	1734	2380	1916	2154	1996	1540	54				
39190	852	2085	1149	2264	899	2369	824	2793	547	3299	222	3774	-181	4232	-180	80	
39190	853	4918	-387	5551	-638	6201	-987	6821	-1131	7504	-1179	8350	-1114	9147	-1081	73	
39190	854	9894	-112810708	-118011553	-127112483	-136913538	-149214639	-161915849	-1749	44							
39190	85517385	-189418791	-201220363	-211822085	-224423401	-231524838	-241526140	-2489		20	524						
39190	85627474	-259428865	-264930349	-274231420	-280832886	-286233248	-2883			5							
39190	881820923	1100	39	-2860	1625	2153	1721	2378	1909	2157	1989	1547	12				
39190	882	2082	1107	2343	835	2624	774	3077	472	3459	30	3620	-237	4001	-256	4	
39190	883	4445	-299	4827	-305	5413	-433	6046	-795	6638	-1047	7312	-1084	8092	-1085	66	
39190	884	8905	-1094	9818	-115910673	-121011709	-132612733	-141413659	-153414386	-1619	47						
39190	88515959	-178316700	-184817545	-190218890	-200720085	-209621554	-220623042	-2301		33							
39190	88623953	-237125641	-249327116	-257128531	-264929855	-270830861	-277832076	-2860		10							
39190	931821015	1630	42	-2765001	1447	1747	1649	2223	1720	2380	1965	1275	10				
39190	932	2373	1042	2938	518	3336	53	3579	-307	3786	-668	3992	-644	4249	-646	47	
39190	933	4681	-633	5191	-722	5593	-729	6010	-586	6317	-520	6839	-733	7623	-1002	79	313
39190	934	8298	-1069	8886	-1094	9565	-112610377	-117411237	-124812163	-135913226	-1496	59					
39190	93514188	-162515035	-170916301	-182317533	-193318722	-201919999	-210621268	-2186		84							
39190	93622612	-229423436	-233524553	-240425686	-246426700	-253527712	-258528715	-2638		95							
39190	93730110	-271330802	-276531066	-2762						8							
39190	971821026	1050	37	-2357	1604	2117	1700	2368	1745	2401	1886	2263	60				
39190	972	1998	1415	2167	1212	2396	1012	2648	817	3023	405	3354	1	3726	-644	90	
39190	973	4061	-796	4536	-823	4995	-774	5440	-644	5801	-470	6183	-475	6714	-645	52	
39190	974	7211	-887	7770	-1090	8441	-1190	9247	-1222	9878	-119110795	-119811604	-1243			36	
39190	97512276	-130613047	-139514031	-154514859	-164215762	-174617016	-186918291	-1994		88							
39190	97619188	-206820527	-216421799	-225422650	-231123316	-2357				53	625						
39190	981821103	1430	43	-2914	1604	2117	1700	2368	1745	2401	1886	2263	31				
39190	982	1998	1415	2167	1212	2395	1012	2701	700	3056	414	3604	-194	3850	-522	53	
39190	983	4189	-728	4468	-337	4929	-412	5612	-580	6325	-771	6956	-936	7612	-1094	19	
39190	984	8441	-1182	9102	-1180	9617	-116610296	-115611037	-119111883	-127112823	-1394					41	
39190	98513950	-154915086	-169216008	-178517087	-189218227	-198219381	-207120699	-2171		39							
39190	98622005	-226423235	-233424455	-242025610	-249826692	-255327642	-260528926	-2662		97							
39190	98730199	-272631408	-277832717	-283133685	-2914					10							
39190	1001821201	1200	42	-2907	1737	2383	1882	2266	1968	1721	2010	1417	41				
39190	1002	2340	1065	2419	994	2842	562	3217	145	3547	-233	3969	-618	4482	-533	8	
39190	1003	5179	-634	5809	-414	6197	-590	6713	-807	7145	-994	7848	-1184	8506	-1241	0	339
39190	1004	8942	-1224	9337	-1204	9865	-115610491	-111511358	-114812107	-126013091	-1410					2	
39190	100513871	-153915181	-171216629	-186018023	-196619322	-207220641	-215821955	-2257		38							
39190	100623340	-235324748	-243925851	-250626962	-256528272	-263329449	-269330534	-2734		41							
39190	100731561	-279132647	-285733530	-2907						28							
39190	1011821207	1200	43	-2907	1737	2383	1882	2266	1968	1721	2010	1417	70				
39190	1012	2340	1065	2460	921	2885	462	3287	53	3574	-364	3864	-509	4286	-522	67	
39190	1013	4653	-578	5202	-592	5705	-450	6114	-611	6684	-824	7145	-994	7848	-1184	56	
39190	1014	8506	-1241	8942	-1224	9337	-1204	9865	-115610491	-111511358	-114812107	-1260				3	
39190	101513091	-141013871	-153915181	-171216629	-186018023	-196619322	-207220641	-2158		32							
39190	101621955	-225723340	-235324748	-243925851	-250626962	-256528272	-263329449	-2693		74	411						

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Table B1. (Continued)

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Table B1. (Continued)

39190	1084	8655-1327	9439-139910184-137010906-132311681-129412631-130113534-1385	5													
39190	108514432-147915477-161616613-174117734-185418908-198319913-206620961-2153	66	443														
39190	108621854-222323000-231523922-237824920-244825773-250326744-255427561-2588	23															
39190	108728538-264329516-269530322-2735	11															
39190	1091830224	1300	37-1989MR	1565	2007	1665	2199	1704	2385	1795	2304	14					
39190	1092	1857	2303	1898	2251	1999	1530	2199	1198	2369	910	2489	892	2823	536	49	
39190	1093	3243	150	3743	-588	4043	-712	4343	-421	4893	-424	5149	-464	5575	-562	45	
39190	1094	6067	-596	6592	-754	7019	-910	7511-1050	8003-1205	8594-1325	9086-1405	80					
39190	1095	9906-145310464-143911415-136412104-131112957-134913876-137415188-1520	39														
39190	109616041-162916895-174617879-186118830-196019191-1989	67															
39190	1101830303	1110	46-2337GE	1569	2010	1640	2175	1711	2407	1857	2298	56					
39190	1102	1887	2230	1919	2101	2016	1496	2562	753	2836	507	3186	183	3486	-256	20	404
39190	1103	3738	-585	4286	-864	4886	-817	5386	-715	5986	-569	6592	-592	7347	-864	63	
39190	1104	7904-1088	8692-1345	9446-145310365-145511448-137212399-130913219-1317	28												
39190	110513875-136514302-141414696-146215057-151115385-156015844-160916303-1658	25															
39190	110616533-170716894-175617320-180517780-185318272-190218698-195019190-1999	40															
39190	110719650-204820240-209620831-214421389-219222045-224022635-228923193-2337	34															
39190	1111830321	1500	39-2717	1569	2000	1641	2167	1711	2399	1887	2222	44					
39190	1112	1919	2093	1993	1518	2282	1029	2655	680	3169	153	3558	-318	3745	-623	94	
39190	1113	4179	-868	4688	-685	5290	-664	5896	-635	6578	-526	7189	-624	8027	-1072	29	
39190	1114	8791-1373	9595-151010550-153011541-144312428-133813548-133014454-1398	44													
39190	111515646-154616876-170818044-186419237-199720382-210421627-222123073-2328	21	422														
39190	111624082-239524948-244925974-251426998-256227974-261229095-267829788-2717	71															
39190	1121830328	1045	38-2617	1695	2389	1787	2377	1889	2274	1958	1800	33					
39190	1122	1990	1572	2215	1175	2366	993	2662	710	3184	177	3749	-679	4050	-867	27	
39190	1123	4630	-865	5208	-740	5883	-660	6661	-684	7212	-709	7861	-914	8437	-1200	9	
39190	1124	9316-149110013-155510722-154911550-154412567-145713410-137614458-1353	31														
39190	112515736-148516785-163217813-178118553-187419686-200320945-213222153-2237	84															
39190	112623079-230124682-242325806-247926933-254827708-258728456-2617	95															
39190	1131830412	1030	38-2723	1706	2407	1894	2268	1959	1809	1998	1558	68					
39190	1132	2236	1169	2353	1004	3056	344	3443	-62	3456	-82	3695	-534	4080	-518	36	
39190	1133	4622	-314	5326	-452	6100	-629	6878	-811	7627	-1042	8456	-1274	9169	-1427	60	514
39190	113410214-152010975-149611745-148212573-139613558-134314598-135915651-1492	95															
39190	113516869-166918072-183319408-198120600-210721876-221723037-230724011-2391	76															
39190	113625042-245226172-251427325-256828407-262329435-267130444-2723	65															
39190	1141830506	835	34-2741CV-.05E	1699	2404	1896	2265	1992	1583	2163	1259	21					
39190	1142	2386	964	2836	752	3197	454	3682	60	4028	-270	4944	-490	5359	-620	46	
39190	1143	6123	-658	7131	-807	8092-1142	9033-1401	9924-148210776-147311759-1445	7								
39190	114412500-138413480-133814855-141916151-158517520-176318870-191520071-2049	92															
39190	114521223-216222536-227423741-236424937-242626185-251027350-255928544-2606	24															
39190	114629673-266930576-2741	6															
39190	1151830524	1300	35-2854	1632	2188	1726	2430	1885	2271	1994	1555	68	500				
39190	1152	2204	1193	2374	981	2449	893	2834	731	3353	299	3831	-175	4388	-598	81	
39190	1153	5014	-593	5686	-483	6502	-690	7400	-976	8239-1221	9378-144710465-1472	52					
39190	115411711-143812752-135913925-135215388-148116880-167318215-184119477-1982	94															
39190	115520731-211021909-221823412-233424681-241826086-250227483-256628854-2630	65															
39190	115630281-270331519-277532654-2854	66															
39190	1161830613	825	32-2707	1699	2385	1794	2346	1902	2203	2002	1529	43					

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Table Bl. (Continued)

39190	1162	2201	1196	2336	1031	2655	815	3071	516	3541	-32	3907	-293	4313	-408	5
39190	1163	4940	-446	5510	-460	6452	-731	7683	-1126	8875	-1401	9847	-1488	11156	-1433	5
39190	1164	12054	-1394	13586	-1349	14950	-1445	16413	-1620	17894	-1808	19365	-1975	21037	-2147	15
39190	1165	22188	-2252	23306	-2338	24569	-2411	25938	-2502	27173	-2564	28408	-2620	30078	-2707	98 524
39190	1171	830630	1055	33-2630				1693	2372	1817	2316	1895	2243	1997	1553	81
39190	1172	2265	1101	2901	707	3425	233	3862	-381	4129	-333	4732	-366	5410	-462	68
39190	1173	5970	-611	6599	-891	7262	-1067	8087	-1283	8992	-1430	9662	-1478	10532	-1464	82
39190	1174	11381	-1416	12668	-1360	13776	-1377	14987	-1452	16269	-1618	17512	-1771	18927	-1949	34
39190	1175	19944	-2040	21126	-2165	22282	-2249	23563	-2353	24915	-2433	26255	-2512	27507	-2570	22
39190	1176	28506	-2630													42
39190	1181	830711	825	36-2761				1699	2386	1721	2417	1816	2309	1888	2249	85
39190	1182	2000	1533	2151	1267	2307	1058	2545	818	3004	635	3558	43	4180	-260	73
39190	1183	4723	-371	5314	-453	5966	-714	6608	-900	7583	-1178	8450	-1344	9252	-1453	51
39190	1184	9982	-1483	11085	-1436	12089	-1389	13201	-1362	14579	-1434	15750	-1552	17101	-1721	24 562
39190	1185	18405	-1882	19735	-2026	21149	-2172	22636	-2281	23927	-2372	25094	-2441	26330	-2520	66
39190	1186	27420	-2576	28565	-2607	30120	-2704	31094	-2761							7
39190	1191	830725	1008	32-2751001				1698	2561	1800	2368	1980	1725	2015	1507	86
39190	1192	2374	965	2783	765	3275	394	3680	-68	4239	-315	4736	-340	5317	-556	18
39190	1193	6067	-768	6884	-1008	7648	-1180	8384	-1333	9362	-1469	10388	-1479	11573	-1407	93
39190	1194	12802	-1355	13895	-1379	15103	-1475	16533	-1638	17857	-1816	19461	-1995	20684	-2119	8
39190	1195	21940	-2282	23372	-2345	24648	-2427	25829	-2491	27086	-2561	28617	-2678	30891	-2751	21
39190	1201	830808	840	30-2662				1811	2329	1968	1766	2034	1467	2150	1263	85
39190	1202	2297	1056	2632	818	2933	704	3244	481	3746	-103	4149	-213	4683	-350	66
39190	1203	5503	-645	6713	-965	7687	-1201	8812	-1408	9918	-1484	11130	-1431	12400	-1370	15 465
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39190	1205	24104	-2399	25366	-2465	26807	-2543	27867	-2609	29149	-2662					72
39190	1211	830825	900	29-2491				1811	2329	1968	1766	2034	1467	2150	1263	9
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39190	1213	6410	-863	7212	-1127	7943	-1271	8735	-1401	9467	-1471	10530	-1449	11502	-1404	60
39190	1214	12606	-1348	13674	-1389	14686	-1455	15994	-1596	17117	-1719	18438	-1889	19798	-2029	50
39190	1215	21008	-2155	23684	-2365	24997	-2445	25925	-2491							26
39190	1221	830906	835	36-2837				1702	2377	1893	2251	2038	1437	2285	1082	19
39190	1222	2291	1071	2620	827	3041	460	3376	131	3672	-286	4038	-254	4642	-314	78
39190	1223	5359	-433	6146	-656	6856	-1037	7567	-1205	8344	-1365	9339	-1468	10198	-1477	22 382
39190	1224	11008	-1428	11971	-1368	13019	-1383	13982	-1392	15001	-1480	16297	-1637	17680	-1809	67
39190	1225	19005	-1962	20586	-2118	22040	-2249	23536	-2366	24652	-2429	25908	-2501	27373	-2581	78
39190	1226	28696	-2645	29899	-2711	31067	-2764	32159	-2837							17
39190	1231	830918	845	33-2801				1702	2377	1893	2251	2038	1437	2275	1092	70
39190	1232	2285	1082	2730	691	3355	-58	3804	-476	4403	-471	4949	-790	5561	-813	98
39190	1233	6323	-717	7235	-851	8068	-1276	9099	-1433	10026	-1481	11023	-1431	12271	-1354	70
39190	1234	13630	-1367	14839	-1468	16027	-1608	17493	-1784	18996	-1957	20660	-2125	21832	-2220	11
39190	1235	22999	-2320	24353	-2415	25524	-2485	26603	-2542	27740	-2587	29139	-2661	30465	-2726	22
39190	1236	31629	-2801													26
39190	1241	831001	950	52-2704				1696	2380	1696	2377	1835	2324	1887	2269	95 554
39190	1242	1893	2244	1951	1881	1993	1577	1997	1563	2151	1269	2366	1001	2479	914	9
39190	1243	2750	644	3082	277	3125	210	3450	-117	3834	-721	4095	-815	4455	-664	92
39190	1244	4674	-565	4982	-458	5430	-394	5777	-449	6034	-483	6260	-534	6552	-579	40
39190	1245	6865	-732	7298	-964	7684	-1123	8026	-1250	8296	-1324	8834	-1401	9227	-1447	64

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Table B1. (Continued)

39190	1246	9682-148210396-149011483-141612124-137413060-135014173-138615091-1472	47
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39190	124823394-233925226-245426682-252928019-260229286-265629953-2704	78	
39190	1251831005 805 26-2091	1696 2377 1836 2324 1893 2244 1951 1881	99
39190	1252 1997 1563 2151 1269 2351 1022 2586 778 3227 178 3727 -439 4223 -616	28	
39190	1253 5025 -484 5842 -499 6842 -708 7771-1146 8719-1392 9702-148610639-1477	96 554	
39190	125411665-140712696-135913799-137015031-147416416-164917599-179218826-1933	91	
39190	125520273-2091	66	
39190	1261831013 1310 39-2383	1696 2377 1836 2324 1893 2244 1951 1881	71
39190	1262 1997 1563 2151 1269 2289 1077 2637 747 2674 708 2917 457 3139 220	72	
39190	1263 3281 42 3533 -354 3789 -559 4156 -552 4812 -529 5294 -573 6103 -609	9	
39190	1264 6760 -673 7635-1030 8473-1339 9416-147610054-147110910-143411587-1397	46	
39190	126512492-136113365-135514056-139914607-145315651-154916782-173217748-1816	34	
39190	126618818-196419828-205320394-211521134-218922190-225623106-235523995-2383	42	
39190	1271831024 1145 38-2348	1696 2377 1836 2324 1893 2244 1951 1881	47
39190	1272 1997 1563 2151 1269 2279 1088 2569 797 2964 447 3251 148 3599 -391	65 543	
39190	1273 4041 -594 4464 -603 4950 -609 5468 -592 6914 -721 7522 -955 8310-1287	97	
39190	1274 8990-1435 9738-149410454-148611296-138112268-132913143-133213996-1407	68	
39190	127514832-150215632-160116379-169117344-179518318-191218915-197419607-2045	30	
39190	127620246-210521003-216821692-221722201-225722731-229723362-2348	58	
39190	1281831107 1100 29-2671	1695 2385 1824 2335 1899 2200 1947 1902	61
39190	1282 2001 1575 2187 1233 2803 751 3427 54 3984 -379 4801 -279 5681 -486	60	
39190	1283 6819 -830 7846-1184 8904-1393 9869-147510893-139212099-131013260-1381	19	
39190	128414543-149315951-165817485-183818948-198220335-211121639-221823241-2338	79	
39190	128524484-241625576-247427328-257029447-2671	80	
39190	1291831120 1100 30-2587	1695 2368 1882 2265 1936 1937 2020 1502	75 627
39190	1292 2303 1058 2605 854 3115 301 3623 -180 4299 -527 5133 -710 5917 -471	42	
39190	1293 7002 -759 7842-1142 8852-1407 9879-145110895-138011835-133012760-1345	65	
39190	129414077-145215350-159216572-172517598-185118750-196120094-208221450-2202	64	
39190	129522731-229724051-238925285-246126670-253927758-2587	61	
39190	1301831202 900 30-2491	1661 2279 1698 2386 1881 2271 1948 1874	55
39190	1302 1999 1565 2370 982 2757 710 3259 107 3721 -282 4263 -554 5250 -631	81	
39190	1303 6189 -462 7150 -866 8025-1226 8826-1412 9879-145510988-137412146-1326	66	
39190	130413052-137214035-144915262-159116447-171817881-187518977-198620088-2087	34	
39190	130521341-219422430-227823611-235024688-242825798-2491	47	
39190	1311831216 1100 48-2773	1646 2237 1693 2381 1865 2264 1940 1899	40 555
39190	1312 1993 1570 2095 1352 2353 1011 2732 661 3083 340 3650 -248 4024 -613	74	
39190	1313 4565 -692 4997 -690 5339 -652 5645 -471 5844 -498 5984 -441 6307 -464	82	
39190	1314 6695 -595 7006 -741 7710-1043 8271-1258 8774-1380 9627-145810246-1429	52	
39190	131510690-140711130-137211937-133312548-133913415-138014196-145614815-1527	61	
39190	131615751-163716747-174517800-185618646-194519609-204120362-211021570-2210	54	
39190	131723133-232123910-237625565-246327126-255128019-259828911-264829556-2683	55	
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39190	1321831227 1130 34-2496	2278 1087 2536 857 2791 565 3146 158	36
39190	1322 3657 -365 3983 -609 4473 -698 4934 -799 5418 -793 5852 -734 6364 -550	51	
39190	1323 6800 -557 7369 -723 7742 -902 8188-1116 8622-1307 9429-145310405-1449	12 520	
39190	132411493-136812459-133813337-137814571-149815749-163116972-178318413-1931	32	
39190	132519606-204120574-212421342-219021965-222722919-230523992-237724671-2409	46	

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Table B1. (Continued)

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Table B1. (Continued)

39190	144517916-190619109-199120378-209021625-218022849-228323977-233625164-2420	5
39190	1451840413 1200 35-2623CH300E 1694 2388 1721 2434 1878 2263 2049 1446	63
39190	1452 2344 1124 2418 1070 2799 609 3324 71 3770 -314 4105 -646 4461 -788	6
39190	1453 4890 -897 5435 -901 6070 -784 6611 -510 7120 -675 7880-1030 8641-1250	54
39190	1454 9382-132510384-131811450-132212589-137813639-146414913-160316639-1792	70
39190	145517922-189719118-198820365-208521523-217622724-226624141-235725275-2430	72
39190	145626375-249827523-254828699-2623	98
39190	1461840425 1030 33-2487CV.1E 1699 2395 1729 2440 1793 2372 1884 2271	41
39190	1462 1944 1869 2025 1478 2130 1268 2487 999 2979 454 3563 -102 3936 -611	43
39190	1463 4327 -799 4857 -843 5463 -415 6021 -507 6730 -714 7309 -918 8175-1167	28 480
39190	1464 9066-1306 9848-132310980-131312140-135913263-144814377-155915679-1702	40
39190	146516980-182918264-192419869-204721083-214822387-223723773-233324940-2418	49
39190	146626141-2487	61
39190	1471840509 1050 34-2494AB 1699 2395 1729 2440 1793 2372 1884 2271	79
39190	1472 1944 1869 2025 1478 2306 1092 2616 902 3219 406 3874 -184 4182 -365	0
39190	1473 4504 -305 5191 -418 5535 -525 6270 -728 6859 -889 7517-1044 8189-1194	81
39190	1474 9057-1290 9921-130110926-130211696-133012818-141313606-148214739-1595	64
39190	147516260-176017501-186318802-195420146-206221490-216922662-225023956-2345	42
39190	147625061-240626365-2494	44
39190	1481840515 935 30-2400ABD02 1692 2393 1755 2377 1882 2296 1922 2264	59 519
39190	1482 2000 1615 2164 1259 2319 1077 2778 757 3237 294 3743 -4 4299 -327	41
39190	1483 4905 -413 5373 -551 5855 -649 6360 -766 6905 -901 7666-1095 8504-1261	2
39190	1484 9363-129510364-132111673-133712742-142113830-152515171-164816365-1780	91
39190	148517532-188518654-197119952-204921292-214824660-2400	59
39190	1491840524 1300 33-2603 1700 2396 1892 2271 1998 1615 2164 1259	71
39190	1492 2338 1080 2652 885 3134 384 3540 -65 3820 -414 4190 -437 4680 -398	7
39190	1493 5172 -500 5803 -606 6410 -742 7097 -953 7857-1149 8618-1247 9569-1273	29
39190	149410801-130511935-134613212-144714305-155615790-174217167-185318491-1953	62
39190	149519650-202620951-212822265-222923644-232224972-240826158-247627254-2541	15
39190	149628368-2603	75 452
39190	1501840601 110 30-2574 --- 1692 2386 1885 2282 2008 1582 2166 1262	5
39190	1502 2322 1056 2525 984 3068 356 3606 -329 3868 -356 4611 -576 5161 -659	51
39190	1503 5776 -627 6493 -726 7247 -982 8103-1202 9131-127210057-127911127-1293	99
39190	150412341-139113639-150514881-164616271-177117548-187919187-201620485-2122	51
39190	150521850-218623291-228124790-240726392-250827639-2574	18
39190	1511840614 1040 21-1833 1699 2400 1887 2297 2042 1484 2492 998	38
39190	1512 2568 458 3352 86 3864 -389 4386 -554 5130 -617 5828 -603 6504 -750	40
39190	1513 7078 -953 7939-1178 8851-1253 9635-128710675-128911854-134313031-1445	97
39190	151414082-159015509-171816972-1833	34
39190	1521840627 1035 32-2633 1701 2393 1888 2276 2044 1475 2289 1127	31 464
39190	1522 2564 458 3106 373 3670 -253 4077 -502 4520 -587 5021 -369 5829 -654	86
39190	1523 6187 -776 6681 -883 7228-1024 8022-1180 8871-1258 9848-126411106-1297	17
39190	152412280-136913265-144514306-157215370-168217185-186018815-197720080-2060	13
39190	152521147-213322485-225023878-236125075-241026179-248127483-257729157-2633	27
39190	1531840710 1045 29-2514 1695 2388 1885 2270 2017 1541 2426 1041	8
39190	1532 3016 479 3465 217 4000 -186 4558 -461 5069 -454 5744 -601 6460 -872	71
39190	1533 7140-1032 7944-1195 8501-1234 9036-1252 9935-126610897-131111713-1355	18
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Table B1. (Continued)

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Table B1. (Concluded)

39190	1644	5592	-858	6121	-1050	6592	-923	7463	-726	7915	-840	8576	-1021	9095	-1116	80
39190	1645	9932	-121310730	-126411962	-137712787	-143413826	-155414896	-165016408	-1782							42
39190	164617403	-187618810	-200220045	-209720967	-216922035	-223323131	-229324233	-2370								97
39190	1651841029	1220	40	-2841		1651	2263	1682	2404	1735	2462	1882	2285			46 569
39190	1652	1930	2002	2021	1573	2164	1271	2379	911	2748	610	3308	75	3746	-538	7
39190	1653	3920	-641	4322	-741	4698	-642	5099	-658	5404	-966	5606	-936	5971	-982	42
39190	1654	6295	-919	6772	-719	7458	-645	8084	-801	9024	-102110200	-118211383	-1298			30
39190	165512562	-142013700	-155414833	-167116253	-180917885	-193619268	-204920701	-2152								46
39190	165622464	-226723696	-234825248	-243126775	-251727932	-258629384	-267130676	-2746								8
39190	165732073	-2841														76
39190	1671841128	1030	46	-2319002		1646	2248	1689	2388	1753	2443	1847	2321			10
39190	1672	1884	2243	2016	1563	2152	1295	2282	1093	2323	1015	2326	1009	2476	883	48
39190	1673	2652	820	2753	763	2851	620	3016	481	3332	163	3585	-147	3800	-264	82
39190	1674	4103	-478	4119	-492	4343	-632	4524	-685	4720	-678	5032	-678	5335	-643	68 417
39190	1675	5556	-637	5874	-596	6225	-614	6697	-630	7107	-649	7548	-705	7981	-820	33
39190	1676	9086	-104210111	-118811044	-128711983	-138913139	-151814332	-163315472	-1755							63
39190	167716284	-183017401	-190318758	-201019810	-208720716	-215321745	-221523322	-2319								19
39190	1681841217	1315	44	-2549		1884	2278	2034	1539	2234	1161	2342	973			60
39190	1682	2471	886	2753	694	2847	634	3200	340	3625	-89	3846	-217	4159	-306	5
39190	1683	4679	-559	5250	-653	5881	-643	6578	-654	7093	-711	7782	-807	8480	-918	96
39190	1684	9488	-108010340	-119111217	-131111969	-139212758	-148513508	-156614216	-1639							84
39190	168515147	-171916162	-181616755	-186317412	-191018101	-197118727	-201719259	-2051								83
39190	168620318	-213220909	-217621583	-221022205	-225322817	-229723637	-234024300	-2394								8
39190	168725139	-243325779	-247326347	-249026895	-254926895	-2529										16 467

APPENDIX C: PROGRAM DATACHECK

The following program was written as an aid to the proper entry of the profile data into the user's computer system. The program was run on the correct data at the Field Research Facility and the proper checksum values added to the BPAS format file as explained in Appendix B. The data should be entered without the checksum values and then run through this program. Compare the checksum values with those given in Appendix B. The code was developed on a Control Data Corporation computer, but should be easily converted to any system running an implementation of FORTRAN 77.

```

PROGRAM DATCHK (INPUT,OUTPUT,TAPE7)
C
C      AUTHOR: MS. REBECCA SAVAGE, WESCD-F
C THIS PROGRAM IS DESIGNED FOR THE DATA PROCESSER TO COMPARE COPIES
C OF DATA FILES TO MAKE SURE TRANSFERED COPIES ARE CORRECT.
C THE COPY CAN BE CHECKED AT EVERY LINE OR EVERY TEN LINES.
C
C THE PROGRAM READS FROM FORTRAN UNIT 7 AND WRITES TO UNIT 8
C
      INTEGER*2 ICARD(25),ITOT,LTOT,I,J,N,V,STOT
      CHARACTER*1 LINE(80),CARD(25)
C
      DATA ICARD/1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,
$          20,21,22,23,24,25/
      DATA CARD/' ',' ','-','0','1','2','3','4','5','6','7','8','9',
$          'G','H','D','E','O','M','R','C','V','A','S','B'/
C
C DATA IS READ IN LINE BY LINE
C
      N=1
      V=1
      STOT=0
50  ITOT=0
      READ(7,100,END=99) LINE
100  FORMAT(80A1)
C
C ASSIGN INTEGER VALUES TO CHARACTER DATA
C AND KEEP SUMS OF DATA BASED ON CHARACTER AND LOCATION IN LINE
C
      DO 10, I=1,80
      DO 20, J=1,25
          IF (LINE(I).EQ.CARD(J))THEN
              ITOT=ICARD(J)*I+ITOT
              GO TO 10
          END IF
20  CONTINUE
      WRITE (*,103) LINE(I),N,I

```

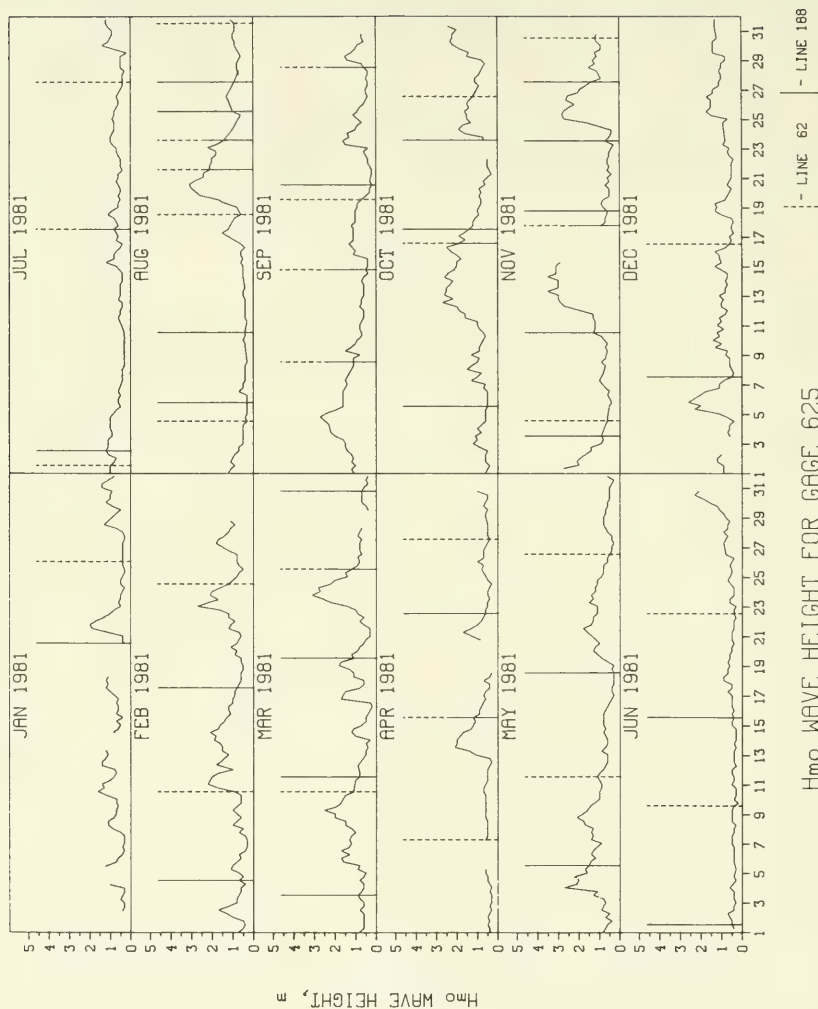
```

        WRITE(8,103) LINE(I),N,I
103     FORMAT('UNKNOWN CHARACTER ',A1,' IN LINE',I5,' AT COLUMN',I3)
10     CONTINUE
C C
C REDUCE THE SUMS TO A MANAGABLE LEVEL, KEEP A LINE SUM (LTOT)
C AND A SUM OF TEN LTOT VALUES (STOT). N COUNTS THE LINE NUMBER IN
C THE DATA FILE, V COUNTS THE TEN LINE INCREMENT FOR STOT.
C EACH LINE IS OUTPUT WITH ITS VALUE OF LTOT, EACH TENTH LINE
C ALSO INCLUDES STOT
C
        LTOT=MOD(ITOT,100)
        STOT=LTOT+STOT
        N=N+1
        IF(V.EQ.10)THEN
            WRITE(8,101) LINE,LTOT,STOT
101     FORMAT(80A1,5X,2I5)
            V=1
            STOT=0
        ELSE
            WRITE (8,102) LINE,LTOT
102     FORMAT(80A1,5X,I5)
            V=V+1
        END IF
        GO TO 50
99     STOP
        END

```

APPENDIX D: WAVE HEIGHTS AT PIER END, 1981-1984

This Appendix presents plots (Figures D1 to D4) of significant wave height at the pier end for each of the 4 years of this report, 1981-1984. The data from the pier-end Baylor wave staff have been combined with transformed data from the nearshore Waverider buoy to provide as complete a record as possible. It should be noted that the pier-end location becomes saturated with respect to wave height at approximately 2.8 m; thus, a value of 2.8 m may indicate that the significant wave height is greater farther offshore.



Hmo WAVE HEIGHT FOR GAGE 625

Figure D1. Wave height at pier end and times of surveys of lines 62 and 188, 1981

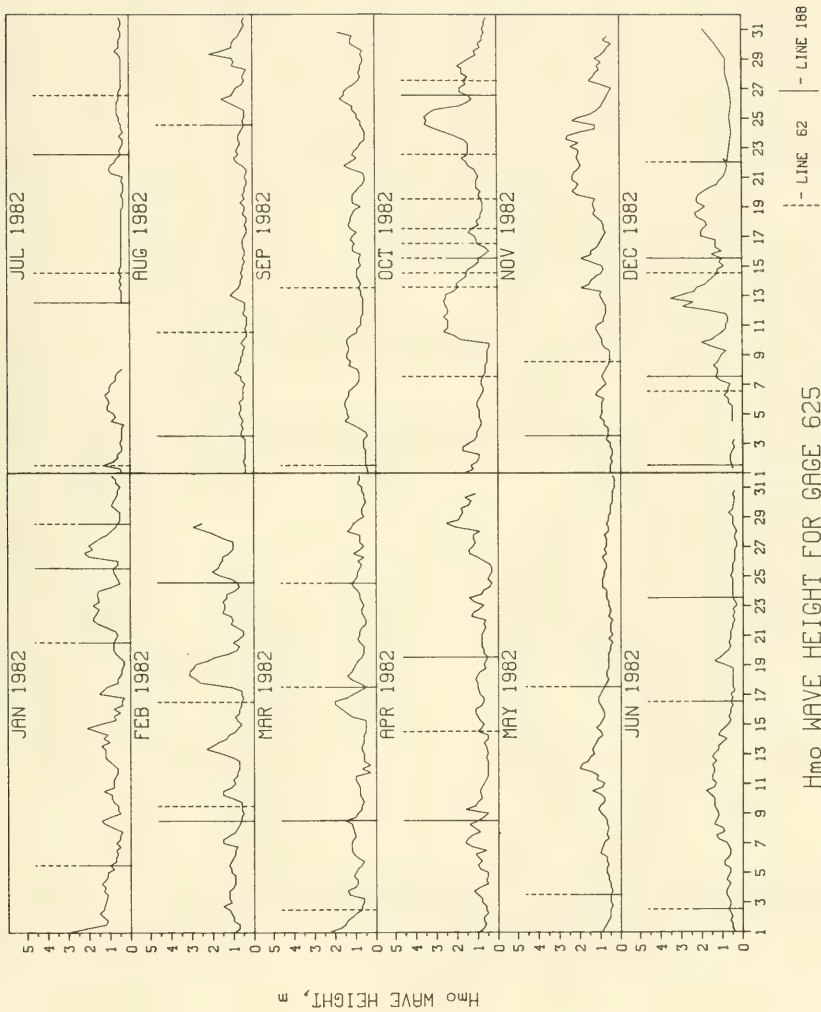
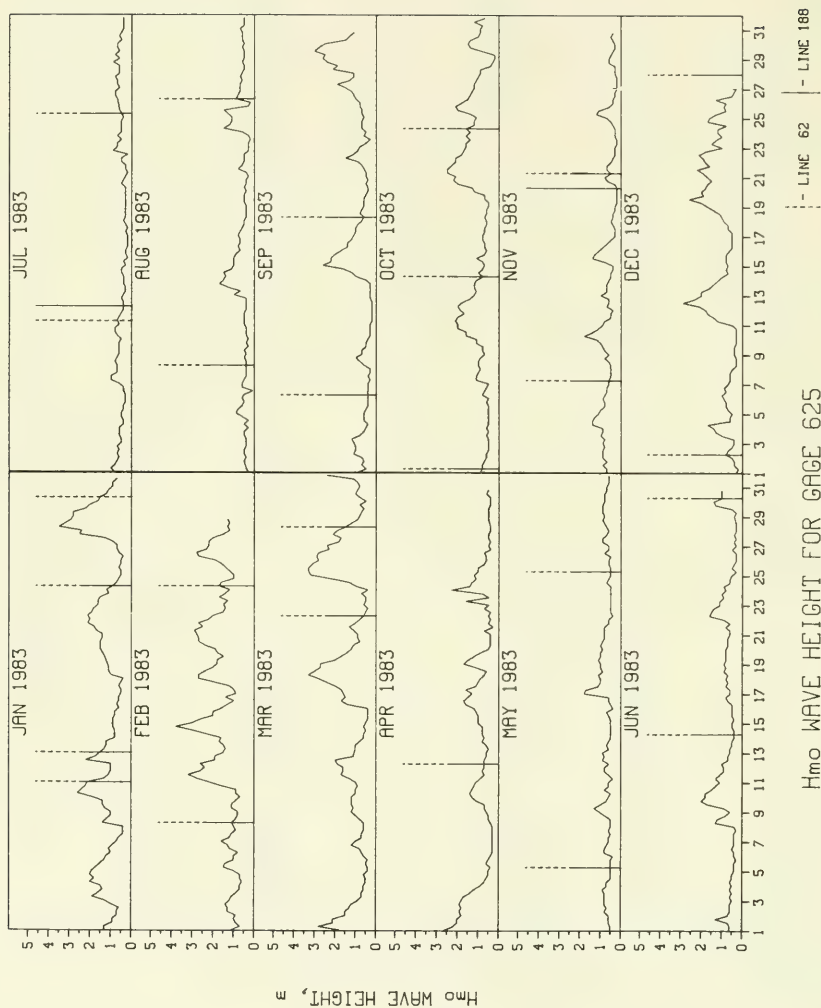
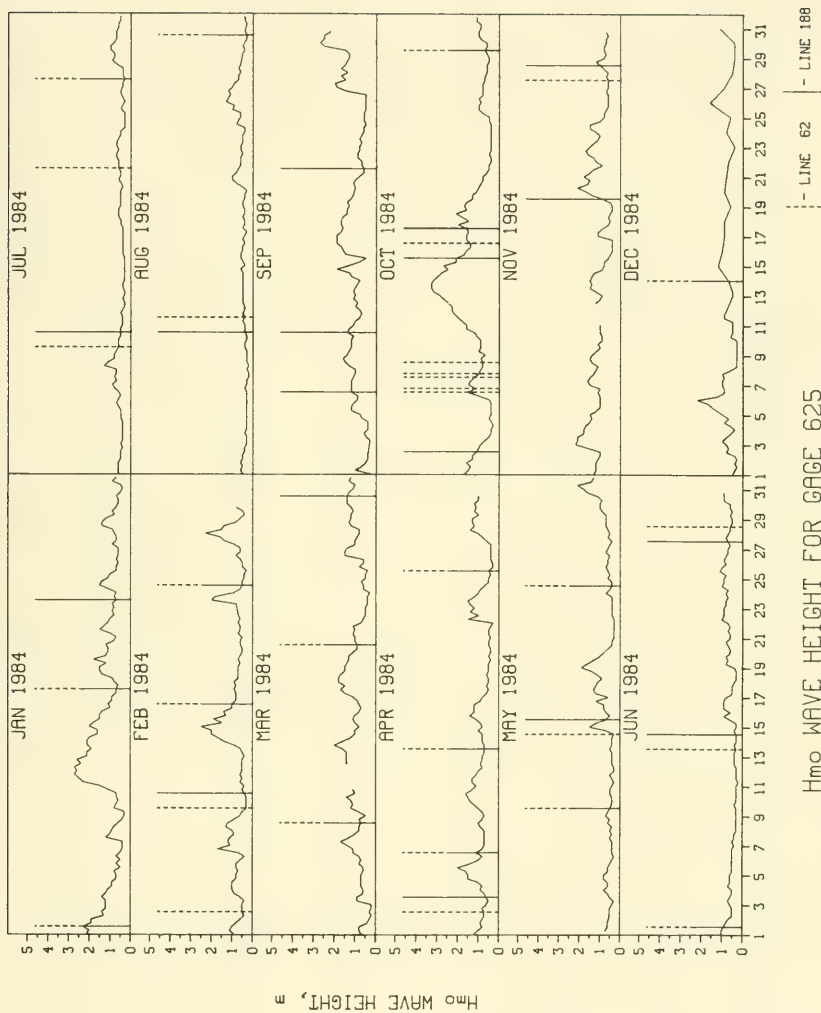


Figure D2. Wave height at pier end and times of surveys of lines 62 and 188, 1982



H_{mo} WAVE HEIGHT FOR GAGE 625
 Figure D3. Wave height at pier end and times of surveys
 of lines 62 and 188, 1983



Hmo WAVE HEIGHT FOR GAGE 625

Figure D4. Wave height at pier end and times of surveys of lines 62 and 188, 1984

APPENDIX E: WAVE HEIGHT AND PEAK PERIOD, 1981-1984

Table E1 lists wave height and peak period for the 4 years covered by this report (1981-1984). The wave heights contained in the table are equivalent to those presented graphically in Appendix D. The periods are the period associated with the maximum energy peak in the wave spectrum calculated from a discrete Fourier transform of the record. Details of these calculations can be found in the main text.

Table E1

Wave Data From 1981-1984

<u>JANUARY 1981</u>				<u>FEBRUARY 1981</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	0	10.0	1.1	1	100	8.0	0.7
2	1200	10.0	0.4	2	100	7.0	1.0
3	0	10.0	0.3	3	100	10.0	0.8
4	0	6.0	0.3	4	100	9.0	0.6
5	1200	6.0	1.2	5	100	12.5	0.7
6	100	6.0	0.6	6	100	6.0	0.6
7	100	12.0	0.3	7	100	14.0	0.3
8	115	5.0	0.9	8	100	12.0	0.5
9	100	7.0	0.7	9	100	8.0	0.8
10	105	4.0	0.7	10	700	10.3	0.6
11	105	5.0	1.4	11	100	9.0	2.2
12	105	4.0	0.8	11	700	9.0	2.1
13	105	6.0	1.1	11	1300	9.0	2.0
14	1310	12.0	0.8	12	100	9.0	1.0
15	105	10.0	0.5	13	100	7.0	1.2
16	100	4.0	0.6	14	100	9.0	1.9
17	1300	7.0	1.2	14	1300	12.0	2.1
18	100	7.0	1.2	15	100	10.0	1.6
20	1300	10.3	0.4	16	100	12.0	1.2
21	100	9.1	0.4	17	100	10.0	0.9
21	1900	8.0	2.0	18	100	9.0	0.6
22	100	9.0	1.7	19	100	9.0	0.5
23	100	9.0	0.5	20	100	7.0	0.8
24	100	5.0	0.4	21	100	8.0	0.6
25	100	3.0	0.4	22	100	9.0	0.9
26	100	6.0	0.4	23	100	12.0	2.7
27	100	10.8	0.4	23	700	14.0	2.2
28	100	5.4	0.4	23	1905	16.0	2.1
29	100	5.9	0.9	24	105	14.0	2.0
30	100	5.0	1.2	25	100	14.0	0.8
31	100	5.0	1.4	26	100	5.0	0.8
				27	100	10.0	1.5

(Continued)

(Sheet 1 of 22)

Table E1. (Continued)

				28	100	10.0	1.2
<u>MARCH 1981</u>				<u>APRIL 1981</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	12.0	0.8	1	100	8.0	0.4
2	100	10.0	0.6	2	100	6.0	0.5
3	115	10.0	0.6	3	100	8.0	0.3
4	100	5.0	0.6	4	100	14.0	0.3
5	100	7.0	0.5	5	100	6.0	0.6
6	100	16.0	1.7	7	700	9.0	0.6
7	100	10.0	1.2	8	100	9.0	0.5
8	100	12.0	1.2	9	1900	12.0	0.6
8	1900	14.0	2.0	10	100	11.0	0.6
9	100	14.0	2.0	11	100	10.0	0.6
9	700	14.0	2.5	12	100	10.0	0.5
10	100	14.0	1.6	13	100	5.0	1.1
11	815	12.0	1.0	13	1300	10.0	2.1
12	700	12.0	0.9	13	1900	11.0	2.0
13	100	14.0	0.5	14	100	11.0	2.0
14	100	12.0	0.3	15	100	10.0	1.2
15	100	6.0	0.7	16	100	7.0	0.9
16	100	9.0	0.3	17	100	8.5	0.7
17	100	6.0	1.6	18	100	6.4	0.7
18	110	12.0	0.6	20	1900	5.0	0.9
19	100	6.0	1.8	21	100	6.0	1.3
20	100	7.0	0.9	22	100	8.0	0.8
21	100	9.0	0.3	23	100	9.0	0.5
22	100	5.0	0.8	24	100	16.0	0.5
23	100	12.0	1.4	25	1300	13.7	0.8
23	700	14.0	2.2	26	100	5.1	1.0
23	1302	7.0	2.6	27	100	12.8	0.6
23	1900	8.0	3.1	28	100	12.1	0.5
24	100	10.0	2.7	29	100	3.8	0.6
24	700	12.0	2.8	30	100	7.0	0.6
24	1300	12.0	2.2				
24	1905	12.0	2.0				
25	117	12.0	1.4				
26	100	10.0	0.8				
27	100	10.0	0.8				
28	100	3.0	0.8				
29	1300	14.0	0.4				
30	100	14.8	0.7				
31	100	7.0	0.6				

(Continued)

(Sheet 2 of 22)

Table El. (Continued)

<u>MAY 1981</u>				<u>JUNE 1981</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	5.0	0.8	1	700	8.0	0.4
2	100	3.0	0.7	2	100	4.0	0.6
3	100	5.0	0.7	3	100	8.0	0.3
4	100	10.0	2.7	4	100	9.0	0.6
4	700	9.0	2.1	5	705	9.0	0.3
4	1300	11.3	2.0	6	100	9.1	0.4
4	1900	12.0	2.2	7	100	8.0	0.5
5	100	10.0	1.6	8	100	8.0	0.4
6	105	10.0	1.2	9	100	9.0	0.5
7	100	8.0	0.9	10	100	9.0	0.4
8	115	5.0	1.3	11	105	8.0	0.5
8	1900	7.0	2.1	12	100	8.0	0.5
9	100	8.0	1.8	13	100	8.0	0.4
10	100	8.0	1.0	14	100	8.0	0.3
11	100	8.0	0.9	15	100	8.0	0.5
12	100	6.0	0.8	16	100	10.0	0.4
13	100	8.0	0.6	17	100	9.0	0.5
14	105	9.0	0.6	18	100	4.0	0.9
15	100	10.0	0.8	19	100	8.0	0.6
16	1300	8.0	0.5	20	100	9.0	0.5
17	100	8.0	0.3	21	710	8.0	0.5
18	100	7.0	0.3	22	100	6.0	0.4
19	100	8.0	0.3	23	100	6.0	0.3
20	100	6.0	1.3	24	100	3.0	0.4
21	700	5.0	1.6	25	100	5.0	0.6
22	100	8.0	1.3	26	700	10.7	0.4
23	100	10.0	1.1	27	700	4.7	0.9
24	100	10.0	1.2	28	100	5.7	0.9
25	100	10.0	0.9	29	100	5.3	0.8
26	100	9.0	0.6	30	100	10.5	1.6
27	100	9.0	0.4	30	1300	11.5	2.3
28	100	6.0	0.6	30	1900	7.7	2.1
29	100	8.0	0.8				
30	100	8.0	0.6				
31	100	7.0	0.5				

<u>JULY 1981</u>				<u>AUGUST 1981</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	10.6	1.0	1	100	6.0	1.2
2	100	7.9	0.7	2	100	7.0	1.0
3	100	8.2	1.1	3	100	7.0	0.5
4	100	7.6	1.0	4	100	9.1	0.5
5	700	7.4	0.7	5	100	9.0	0.3

(Continued)

(Sheet 3 of 22)

Table E1. (Continued)

6	100	8.4	0.6	6	100	9.0	0.3
7	700	8.8	0.4	7	100	5.0	0.5
8	100	8.7	0.4	8	100	10.0	0.4
9	100	9.9	0.3	9	1300	7.0	0.4
10	100	10.0	0.3	10	100	9.0	0.5
11	1300	3.7	0.6	11	705	10.0	0.3
12	100	9.6	0.5	12	700	10.0	0.4
13	100	9.6	0.5	13	100	10.0	0.5
14	100	9.1	0.4	14	700	12.0	0.5
15	100	3.2	0.7	15	100	11.0	0.5
16	100	6.1	0.7	16	100	10.5	0.6
17	100	10.6	0.6	17	715	5.0	1.5
18	100	4.4	0.7	18	700	6.0	0.9
19	100	8.7	0.6	19	100	4.0	0.8
20	100	8.3	0.5	19	2000	8.0	2.6
21	100	6.4	0.6	20	200	9.0	2.8
22	700	6.6	0.5	20	800	9.0	3.0
23	100	8.4	0.7	20	1400	11.0	3.1
24	100	8.3	0.9	20	2000	10.0	2.8
25	100	6.8	0.9	21	200	11.0	2.4
26	100	7.7	0.6	21	800	12.0	2.4
27	100	8.2	0.5	21	1400	12.0	2.1
28	100	6.6	0.4	21	2000	12.0	2.1
29	100	2.1	0.5	22	200	12.0	2.0
30	100	6.0	1.4	22	800	11.0	2.0
31	100	4.0	0.9	23	200	12.0	2.2
				24	710	11.0	1.0
				25	700	12.0	0.6
				26	700	6.0	1.2
				27	700	8.0	1.0
				28	700	9.0	0.7
				29	100	8.0	0.7
				30	100	6.0	0.9
				31	100	7.0	0.9

SEPTEMBER 1981

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	8.3	1.1
2	100	9.0	1.1
3	100	10.0	1.5
3	1300	12.0	2.0
3	1900	12.0	2.2
4	800	14.0	2.3
4	1400	12.0	2.5
4	2000	12.0	2.7
5	200	14.0	2.4
6	1300	11.9	1.6

OCTOBER 1981

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	12.0	0.6
2	100	12.0	0.6
3	100	6.8	1.2
4	100	6.0	1.0
5	100	8.9	0.6
6	100	11.3	0.5
7	100	3.6	0.6
8	100	5.7	1.5
9	100	6.0	1.3
10	100	6.0	0.7

(Continued)

(Sheet 4 of 22)

Table El. (Continued)

7	100	12.5	1.4	11	100	5.0	1.0
8	700	11.4	1.1	12	100	6.0	1.9
9	100	10.8	0.8	12	700	6.0	2.0
10	100	10.2	0.9	12	1400	7.0	2.7
11	100	12.5	0.8	12	2000	7.0	2.2
12	100	11.4	0.6	13	200	8.0	2.6
13	100	10.2	0.6	13	900	8.0	2.5
14	100	11.8	0.7	13	1400	6.0	2.5
15	100	12.0	0.4	13	2000	6.0	2.3
16	200	14.0	1.0	14	100	8.1	2.2
17	700	8.0	1.1	14	700	9.4	2.6
18	100	12.0	1.0	14	1400	10.0	2.4
19	100	11.0	0.9	14	2000	9.0	2.1
20	100	7.0	0.3	15	200	10.0	2.0
21	800	8.0	0.2	15	800	11.0	2.0
22	100	11.0	0.4	15	1909	11.0	2.0
23	100	9.0	0.4	16	109	12.0	2.3
24	100	7.0	1.4	16	807	12.0	2.5
25	100	6.0	0.9	17	200	11.0	1.9
26	100	6.0	0.6	18	100	12.0	1.2
27	100	10.0	0.5	19	700	10.0	0.8
28	100	9.0	0.4	20	100	5.0	0.8
29	100	6.0	1.4	21	100	9.1	0.5
30	100	14.0	0.9	22	100	8.3	0.5
				23	1400	7.0	0.7
				24	100	5.0	1.6
				25	100	5.0	1.5
				26	100	7.0	1.5
				27	100	10.0	1.0
				28	100	6.7	0.9
				29	100	4.0	0.8
				30	200	9.0	2.2
				30	700	8.0	2.3
				30	1400	6.0	2.2
				30	1935	7.0	2.2
				31	200	7.0	2.0
				31	800	9.0	2.4

NOVEMBER 1981

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	900	12.0	2.7
1	1400	12.0	2.0
1	2000	12.0	2.1
2	200	12.0	1.9
3	100	11.0	0.9
4	719	10.0	0.7
5	1405	7.0	0.5

DECEMBER 1981

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	7.0	0.9
2	100	10.0	1.2
3	1300	9.0	0.6
4	100	6.0	0.6
5	100	5.0	1.1
5	900	10.0	2.3
5	1400	11.0	2.0

(Continued)

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Table E1. (Continued)

6	805	6.0	0.6	5	2000	12.0	2.6
7	700	7.0	1.0	6	200	12.0	2.3
8	700	11.0	0.7	6	800	12.0	2.0
9	700	14.0	0.6	7	100	11.1	1.1
10	700	4.0	0.9	8	100	12.3	0.5
11	700	4.0	1.2	9	100	5.0	0.8
12	800	7.0	2.7	10	100	7.0	1.4
12	1400	8.0	2.9	11	100	7.1	1.2
12	2000	9.0	3.0	12	100	6.0	0.7
13	200	10.0	3.0	13	100	7.0	1.1
13	800	12.0	3.5	14	100	9.0	0.8
13	1400	10.0	3.0	15	100	9.0	1.3
14	200	14.0	3.0	16	100	10.9	1.3
14	800	12.0	3.5	17	100	9.9	0.6
14	1340	12.0	3.1	18	100	9.0	0.4
14	2000	11.0	3.1	19	100	6.0	1.2
15	200	12.0	3.1	20	100	6.0	0.6
15	700	12.0	2.9	21	100	6.0	0.5
17	1900	5.6	0.9	22	100	9.4	0.5
18	100	7.0	0.7	23	100	6.4	0.6
19	100	4.0	0.8	24	1300	5.3	0.9
20	100	3.5	0.5	25	100	5.1	0.7
21	100	4.0	0.6	26	200	6.0	1.5
22	100	4.0	0.6	27	100	6.0	1.4
23	100	4.0	0.4	28	100	8.0	1.0
24	100	12.0	0.4	29	100	9.7	0.8
25	100	8.0	2.7	30	100	5.7	1.4
25	800	9.0	2.8	31	700	4.7	1.3
25	1400	12.0	2.7				
25	1900	13.7	2.5				
26	100	13.1	2.2				
26	800	12.0	2.6				
26	1500	14.0	2.5				
26	2000	14.0	2.0				
27	200	17.0	1.9				
28	100	14.0	1.0				
29	100	6.0	1.3				
30	100	4.0	0.9				

JANUARY 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	10.0	2.9
1	700	11.0	2.1
2	100	10.0	1.3
3	1300	6.0	1.1
4	100	7.0	1.2
5	100	10.2	1.1

FEBRUARY 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	8.0	0.9
2	100	5.0	1.0
3	100	7.0	1.1
4	100	8.0	1.0
5	200	10.0	1.1
6	100	11.0	1.0

(Continued)

(Sheet 6 of 22)

Table E1. (Continued)

6	100	12.6	0.7	7	100	5.0	1.5
7	100	14.0	0.7	8	100	10.0	0.8
8	900	6.0	1.3	9	100	11.0	0.5
9	100	14.0	0.5	10	100	4.0	1.0
10	100	6.0	0.9	11	100	10.0	0.9
11	100	2.8	0.8	12	100	8.0	0.7
12	100	4.4	0.6	13	100	6.0	1.5
13	800	6.0	1.2	13	900	7.0	2.3
14	200	10.0	1.3	13	1400	8.0	2.0
14	1900	6.2	2.1	14	200	9.0	1.3
15	100	7.5	1.5	15	100	10.0	0.6
16	200	10.0	0.8	16	100	11.0	0.7
17	200	6.0	1.5	17	100	7.0	0.6
18	200	4.0	0.6	17	2000	10.0	2.6
19	100	11.0	0.3	18	200	12.0	2.8
20	100	6.0	0.8	18	800	11.0	3.1
21	100	5.0	0.6	18	1400	11.0	3.1
22	200	7.0	1.8	18	2000	12.0	2.9
23	100	7.0	1.8	19	200	11.0	2.8
24	100	10.6	1.5	19	200	11.0	2.8
25	100	4.0	0.7	19	800	11.0	2.2
26	100	8.4	0.6	20	100	11.0	0.8
26	800	6.0	2.0	21	100	7.0	0.5
26	1400	7.0	2.2	22	100	10.0	1.0
27	200	7.0	2.0	23	200	9.0	1.4
28	200	8.0	0.9	24	100	10.0	0.9
29	100	12.0	0.5	25	200	6.0	1.7
30	100	12.0	0.8	25	800	7.0	2.0
31	100	5.0	0.5	26	200	6.0	1.5
				27	200	11.0	1.0
				27	2300	7.0	2.1
				28	800	9.0	2.9
				28	1400	10.0	2.5
				29	2000	11.0	2.6

MARCH 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	200	11.0	2.2
2	903	10.0	0.9
3	100	8.0	0.6
4	200	6.0	1.0
5	705	8.0	0.9
6	100	3.0	0.9
7	200	10.0	1.2
8	800	6.0	1.2
9	100	8.0	0.9
10	730	5.0	0.8

APRIL 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	9.0	0.9
2	100	10.0	0.7
3	100	10.0	0.8
4	100	6.0	0.9
5	100	10.0	0.5
6	200	5.0	1.0
7	100	7.0	1.6
8	700	6.0	1.4
9	100	5.0	0.5
10	100	7.0	0.8

(Continued)

(Sheet 7 of 22)

Table E1. (Continued)

11	100	9.0	0.9	11	1300	8.0	0.5
12	100	11.0	0.7	12	100	11.0	0.5
13	100	12.0	0.6	13	100	4.0	0.5
14	100	11.0	0.6	14	100	7.0	0.5
15	100	11.0	0.5	15	100	6.0	0.7
16	900	8.0	2.0	16	100	5.0	1.1
16	1400	8.0	2.0	17	100	7.0	0.9
17	200	10.0	1.1	18	100	7.0	1.1
18	100	5.0	1.2	19	100	7.0	0.7
19	100	9.0	1.0	20	100	7.0	0.7
20	100	8.0	0.6	21	100	7.0	0.8
21	100	5.0	0.8	22	100	8.0	0.6
22	100	11.0	0.5	23	100	7.0	0.7
23	100	11.0	0.6	24	100	9.0	0.7
24	100	4.0	0.9	25	100	10.0	0.4
25	100	7.0	0.9	26	100	6.0	0.7
26	100	7.0	0.9	27	100	10.0	1.2
27	100	9.0	0.6	28	100	10.0	0.9
28	100	7.0	1.4	28	824	6.0	2.1
29	100	7.0	0.6	28	1400	7.0	2.5
30	100	9.0	0.5	29	205	9.0	1.8
31	100	9.0	0.7	30	200	8.0	1.3

MAY 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	11.0	0.9
2	100	10.0	0.5
3	100	9.0	0.5
4	100	10.0	0.5
5	100	5.0	0.7
6	201	9.0	0.7
7	200	9.0	0.8
8	100	10.0	0.6
9	100	11.0	1.0
10	100	11.0	0.8
11	100	11.0	0.8
12	100	14.0	2.0
13	100	12.0	1.3
14	100	11.0	1.1
15	100	10.0	1.0
16	100	9.0	0.9
17	100	11.0	1.0
18	100	9.0	0.6
19	100	9.0	0.6
20	100	9.0	0.5
21	100	9.0	0.4
22	100	8.0	0.4

JUNE 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	14.0	0.4
2	100	9.0	0.5
3	100	7.0	0.6
4	100	6.0	0.7
5	100	5.0	0.6
6	100	8.0	0.7
7	100	8.0	0.8
8	100	9.0	1.0
9	100	9.0	1.2
10	100	10.0	1.4
11	100	12.0	1.3
12	100	11.0	1.4
13	100	11.0	1.4
14	100	11.0	0.8
15	100	9.0	0.7
16	100	9.0	0.6
17	100	10.0	0.6
18	100	14.0	0.5
19	100	7.0	0.9
20	100	10.0	0.7
21	100	10.0	0.6
22	100	9.0	0.4

(Continued)

(Sheet 8 of 22)

Table E1. (Continued)

23	100	7.0	0.6	23	100	10.0	0.3
24	100	7.0	0.7	24	100	8.0	0.5
25	100	9.0	0.8	25	100	7.0	0.6
26	100	9.0	0.8	26	100	11.0	0.4
27	100	10.0	0.7	27	100	7.0	0.3
28	100	9.0	0.6	28	100	8.0	0.3
29	100	9.0	0.6	29	100	6.0	0.5
30	100	9.0	0.4	30	700	8.0	0.4
31	100	10.0	0.3				

JULY 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	10.0	0.4
2	100	5.0	0.6
3	100	6.0	0.5
4	100	5.0	0.4
5	100	6.0	0.8
6	100	7.0	1.1
7	100	6.0	0.9
8	100	9.0	0.4
12	1300	8.0	0.4
13	100	11.0	0.4
14	100	11.0	0.5
15	100	10.0	0.4
16	100	10.0	0.4
17	100	7.0	0.4
18	100	11.0	0.4
19	100	9.0	0.3
20	100	7.0	0.3
21	100	2.0	0.3
22	100	7.0	0.7
23	100	10.0	0.4
24	100	7.0	0.3
25	100	4.0	0.5
26	100	10.0	0.6
27	100	8.0	0.4
28	100	9.0	0.4
29	100	7.0	0.4
30	100	7.0	0.5
31	100	9.0	0.5

AUGUST 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	14.0	0.4
2	100	12.0	0.4
3	100	12.0	0.4
4	100	11.0	0.5
5	100	10.0	0.7
6	100	8.0	0.5
7	100	9.0	0.4
8	105	6.0	0.7
9	100	9.0	0.5
10	700	8.0	0.3
11	100	8.0	0.3
12	100	7.0	0.4
13	100	6.0	1.1
14	100	6.0	0.6
15	100	6.0	0.5
16	100	6.0	0.4
17	100	7.0	0.4
18	100	8.0	0.3
19	100	10.0	0.4
20	100	6.0	0.4
21	100	6.0	0.4
22	100	4.0	0.8
23	100	6.0	0.7
24	100	6.0	0.6
25	100	10.0	0.4
26	737	6.0	1.5
27	100	6.0	0.8
28	100	9.0	0.4
29	100	6.0	1.0
29	800	6.0	2.1
30	100	7.0	1.0
31	100	8.0	0.5

(Continued)

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Table E1. (Continued)

SEPTEMBER 1982				OCTOBER 1982			
DAY	TIME	PERIOD (S)	HEIGHT (M)	DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	8.0	0.4	1	100	7.0	1.6
2	100	6.0	0.5	2	100	10.0	0.9
3	100	7.0	0.6	3	100	7.0	1.4
4	100	9.0	0.8	4	100	9.0	0.9
5	100	6.0	1.4	5	100	11.0	0.9
6	700	6.0	1.3	6	100	14.0	0.9
7	100	6.0	0.9	7	100	11.0	0.8
8	100	4.0	0.9	8	100	8.0	0.6
9	100	10.0	1.4	9	100	9.0	0.5
10	100	11.0	1.4	10	100	6.0	1.8
11	100	10.0	0.7	10	800	8.0	2.1
12	100	8.0	0.6	10	1415	12.0	2.6
13	100	6.0	0.7	10	2000	14.0	2.4
14	100	6.0	0.8	11	200	14.0	2.4
15	100	6.0	0.7	11	800	14.0	2.4
16	100	10.0	1.1	11	1403	14.0	2.6
17	100	11.0	1.1	11	2000	14.0	2.4
18	100	10.0	1.2	12	200	14.0	2.4
19	100	11.0	0.7	12	700	17.0	2.5
20	710	6.0	0.8	12	1500	17.0	2.6
21	100	8.0	0.5	12	2000	12.0	2.5
22	100	6.0	1.2	13	200	14.0	2.5
23	100	8.0	0.8	13	800	17.0	2.1
24	100	11.0	0.5	13	1900	12.0	2.0
25	100	9.0	0.9	14	822	14.0	1.5
26	100	5.0	1.4	15	100	12.0	1.1
27	100	8.0	1.3	16	100	11.0	0.4
28	100	8.0	0.8	17	100	6.0	1.1
29	100	9.0	0.6	18	100	14.0	1.0
30	100	6.0	1.2	19	100	14.0	0.7
				20	100	6.0	0.8
				21	100	7.0	0.9
				22	100	10.0	1.5
				23	100	5.0	1.4
				23	2000	6.0	2.1
				24	200	7.0	2.6
				24	800	8.0	3.1
				24	1400	10.0	3.5
				24	2000	12.0	3.4
				25	200	14.0	3.5
				25	800	14.0	3.3
				25	1400	12.0	3.0
				26	200	12.0	1.4
				27	100	10.0	1.8
				28	100	12.0	1.7
				29	100	12.0	1.3

(Continued)

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Table El. (Continued)

				30	100	11.0	0.9
				31	100	10.0	0.7
<u>NOVEMBER 1982</u>				<u>DECEMBER 1982</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	17.0	0.5	1	800	10.0	0.5
2	100	17.0	0.5	2	100	5.0	0.6
3	100	6.0	0.5	3	100	9.0	0.5
4	100	7.0	0.6	4	1300	10.0	0.5
5	100	6.0	0.9	5	100	10.0	0.5
6	100	8.0	0.8	6	100	12.0	0.7
7	100	7.0	0.7	7	100	11.0	0.6
8	100	9.0	0.7	8	100	6.0	1.2
9	700	11.0	0.5	9	100	6.0	1.0
10	100	5.0	0.9	9	2100	6.0	2.0
11	100	7.0	1.1	10	100	7.0	1.5
12	100	8.0	0.7	11	107	10.0	0.8
13	100	7.0	1.0	12	107	6.0	1.7
14	100	6.0	1.4	12	700	7.0	2.9
15	100	10.0	0.9	12	1400	11.0	2.4
16	100	6.0	1.4	12	2000	11.0	3.5
17	100	11.0	0.8	13	800	11.0	2.3
18	100	9.0	0.9	13	1400	12.0	2.2
19	100	7.0	1.3	14	1300	12.0	1.2
19	2000	8.0	2.1	15	100	12.0	0.9
20	200	8.0	2.3	16	100	7.0	1.0
20	800	10.0	2.1	17	100	6.0	2.0
20	1300	11.0	2.0	17	817	7.0	2.0
20	2000	12.0	2.3	18	100	6.0	1.8
21	200	12.0	2.3	18	800	7.0	2.2
21	800	12.0	2.2	18	1400	8.0	2.3
21	1400	12.0	2.0	18	2000	11.0	2.0
22	200	12.0	2.0	19	100	11.0	1.8
22	800	14.0	2.1	19	800	14.0	2.2
22	1500	14.0	2.0	19	1400	12.0	2.2
22	2000	14.0	2.0	19	2000	14.0	2.1
23	200	14.0	2.4	20	100	14.0	1.9
23	800	11.0	2.0	21	100	12.0	0.9
23	1400	14.0	2.6	22	700	17.0	0.9
23	2000	14.0	2.5	23	100	16.8	0.6
24	200	12.0	1.9	24	100	15.8	0.5
24	2000	7.0	2.3	25	100	14.0	0.6
25	100	6.0	2.0	26	100	15.3	0.5
26	100	6.0	0.8	27	100	7.8	0.6
27	100	10.0	0.4	28	100	5.7	0.8
28	100	7.0	1.2	29	100	6.3	0.8
29	100	6.0	1.2	30	100	4.9	1.3

(Continued)

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Table E1. (Continued)

30	100	7.0	0.4	31	100	5.5	1.9
JANUARY 1983				FEBRUARY 1983			
DAY	TIME	PERIOD (S)	HEIGHT (M)	DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	11.0	1.3	1	100	11.0	1.1
2	100	10.0	0.7	2	100	5.0	0.9
3	100	5.0	1.3	3	100	9.0	1.2
4	100	6.0	1.5	4	100	9.0	0.7
4	700	6.0	2.0	5	100	5.0	1.0
4	1900	7.0	2.0	6	100	8.0	1.0
5	100	9.0	1.9	7	100	9.0	1.6
6	100	7.0	1.2	8	100	11.0	1.0
7	100	9.0	0.7	9	100	12.0	0.8
8	100	9.0	0.4	10	100	6.0	0.7
9	100	4.0	1.0	11	100	6.0	2.2
10	100	7.0	1.9	11	700	8.0	2.8
10	700	10.0	2.6	11	1300	10.0	3.2
10	1300	10.0	2.4	11	1900	11.0	2.6
10	1900	10.0	2.2	12	100	12.0	2.4
11	100	10.0	2.1	12	700	12.0	2.6
12	100	10.0	1.0	13	100	12.0	1.5
12	1300	7.0	2.2	14	100	6.0	1.6
13	100	11.0	1.5	14	700	8.0	2.3
14	100	11.0	0.8	14	1300	10.0	3.0
15	100	14.0	0.9	14	1900	12.0	3.8
16	100	11.0	0.6	15	100	12.0	3.0
17	100	12.0	0.5	15	700	11.0	2.6
18	100	12.0	0.4	15	1300	12.0	2.0
19	1300	6.0	1.3	15	1900	12.0	2.0
20	100	8.0	1.5	16	100	11.0	1.6
21	100	6.0	1.4	17	100	12.0	0.9
21	1900	7.0	2.1	18	100	8.0	2.7
22	100	7.0	2.0	18	700	10.0	2.7
22	700	7.0	2.1	18	1300	11.0	2.4
23	100	9.0	1.6	18	1900	11.0	2.0
24	100	10.0	1.2	19	100	11.0	1.8
25	100	9.0	0.5	20	100	11.0	1.9
26	100	9.0	0.5	20	700	15.0	2.4
27	100	8.0	0.7	20	1300	15.0	2.7
27	1900	8.0	2.5	20	1900	16.0	2.7
28	100	9.0	2.4	21	100	15.0	2.8
28	700	11.0	3.5	21	700	13.0	2.9
28	1300	9.0	3.2	21	1300	15.0	2.5
28	1900	14.0	2.9	21	1900	14.0	2.7
29	100	12.0	2.8	22	100	14.0	2.2
29	700	12.0	2.8	22	700	13.0	2.0
29	1300	12.0	2.2	23	100	13.0	1.5

(Continued)

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Table E1. (Continued)

29	1900	12.0	2.0	24	100	13.0	1.2
30	100	12.0	1.6	25	100	12.0	1.0
31	100	11.0	0.9	26	100	10.0	1.9
				26	700	11.0	2.7
				26	1300	12.0	2.8
				26	1900	11.0	2.3
				27	100	12.0	2.2
				27	700	14.0	2.2
				27	1300	12.0	2.0
				28	100	12.0	1.2

MARCH 1983

DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	8.0	1.8
1	700	11.0	2.8
1	1300	12.0	2.1
1	1900	10.0	2.1
2	100	11.0	1.5
3	100	11.0	0.9
4	100	10.0	0.6
5	100	12.0	0.4
6	100	10.0	0.6
7	100	7.0	1.0
8	100	8.0	0.6
9	100	9.0	1.2
10	100	10.0	1.2
11	100	9.0	1.0
12	100	10.0	1.6
12	1300	11.0	2.0
13	700	8.0	1.0
14	100	6.0	0.6
15	100	14.0	0.5
16	100	10.0	0.4
17	100	5.0	1.6
17	1300	8.0	2.0
17	1900	7.0	2.4
18	100	10.0	2.8
18	700	10.0	3.3
18	1300	11.0	3.0
18	1900	11.0	2.7
19	100	11.0	2.7
19	700	11.0	2.0
20	100	11.0	1.2
21	100	12.0	0.9
22	100	10.0	0.8
23	100	4.0	0.6
24	100	11.0	0.4

APRIL 1983

DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	7.0	2.6
1	700	11.0	2.2
1	1300	11.0	2.0
1	1900	10.0	2.0
2	100	12.0	1.8
3	100	8.0	1.8
4	100	11.0	0.9
5	100	9.0	0.5
6	100	9.0	0.4
7	100	14.0	0.3
8	100	9.0	0.3
9	100	8.0	0.6
10	100	11.0	1.3
11	100	13.0	1.1
12	100	10.0	0.7
13	100	10.0	0.6
14	100	10.0	0.7
15	100	9.0	1.0
16	100	7.0	1.2
17	100	12.0	1.3
18	100	11.0	0.9
19	100	6.0	1.7
20	100	10.0	0.5
21	100	4.0	0.4
22	100	9.0	0.4
23	100	10.0	0.5
24	100	8.0	2.3
25	100	12.0	1.2
26	100	9.0	0.6
27	100	11.0	0.5
28	100	10.0	0.4
29	100	14.0	0.5
30	100	12.0	0.4

(Continued)

(Sheet 13 of 22)

Table E1. (Continued)

24	1900	6.0	2.2
25	100	8.0	3.2
25	700	11.0	3.3
25	1300	12.0	3.3
25	1900	14.0	3.1
26	100	14.0	2.8
26	700	15.0	2.9
26	1300	13.0	2.8
26	1900	13.0	2.3
27	100	13.0	2.4
27	1900	12.0	2.1
28	100	11.0	1.9
29	100	10.0	0.8
30	100	5.0	0.5
31	100	7.0	0.8
31	1900	6.0	2.4

MAY 1983JUNE 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	11.0	0.5	1	100	9.0	0.6
2	100	8.0	0.6	2	100	5.0	0.7
3	100	9.0	0.8	3	100	10.0	0.5
4	100	9.0	0.7	4	100	14.0	0.5
5	100	8.0	0.5	5	100	12.0	0.4
6	100	9.0	0.4	6	100	9.0	0.4
7	100	8.0	0.6	7	100	6.0	0.4
8	100	8.0	0.5	8	100	7.0	0.4
9	700	6.0	1.3	9	100	6.0	0.6
10	100	6.0	0.6	9	1900	7.0	2.0
11	100	9.0	0.6	10	100	7.0	1.8
12	100	10.0	0.8	11	100	8.0	1.1
13	100	5.0	0.9	12	100	9.0	0.9
14	100	8.0	0.5	13	100	9.0	0.6
15	100	10.0	0.5	14	100	8.0	0.4
16	100	12.0	0.4	15	100	9.0	0.5
17	100	7.0	1.8	16	100	6.0	0.5
18	100	9.0	1.0	17	100	9.0	0.6
19	100	9.0	1.0	18	100	8.0	0.8
20	100	8.0	0.9	19	100	9.0	0.9
21	100	8.0	0.8	20	100	9.0	0.8
22	100	9.0	0.6	21	100	9.0	0.6
23	100	9.0	0.5	22	100	4.0	0.9
24	100	7.0	0.5	23	100	6.0	1.1
25	100	8.0	0.5	24	100	9.0	0.8
26	100	17.0	0.6	25	100	9.0	0.5
27	100	8.0	0.6	26	100	11.0	0.3
28	100	14.0	0.6	27	100	11.0	0.3
29	100	11.0	0.8	28	100	11.0	0.3

(Continued)

(Sheet 14 of 22)

Table E1. (Continued)

30	100	10.0	0.8	29	100	4.0	0.4
31	100	9.0	0.7	30	100	7.0	1.4

JULY 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	6.0	0.8
2	100	7.0	0.6
3	100	9.0	0.5
4	100	10.0	0.6
5	100	8.0	0.5
6	100	17.0	0.3
7	100	3.0	0.6
8	100	8.0	0.7
9	100	7.0	0.6
10	100	8.0	0.5
11	100	6.0	0.6
12	100	7.0	0.4
13	100	10.0	0.4
14	100	12.0	0.4
15	100	10.0	0.3
16	100	10.0	0.3
17	100	10.0	0.2
18	100	10.0	0.4
19	100	10.0	0.3
20	100	10.0	0.3
21	100	10.0	0.3
22	100	7.0	0.5
23	100	8.0	0.7
24	100	8.0	0.5
25	100	10.0	0.4
26	700	14.0	0.7
27	100	14.0	0.6
28	100	14.0	0.6
29	100	8.0	0.6
30	100	7.0	0.7
31	100	10.0	0.4

AUGUST 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	12.0	0.3
2	100	7.0	0.4
3	100	8.0	0.4
4	100	17.0	0.3
5	100	10.0	0.9
6	100	9.0	0.6
7	100	7.0	0.6
8	100	10.0	0.4
9	100	14.0	0.4
10	100	14.0	0.3
11	100	14.0	0.5
12	100	7.0	0.4
13	100	5.0	1.0
14	100	7.0	1.5
15	100	8.0	1.0
16	100	9.0	0.7
17	100	8.0	0.8
18	100	8.0	0.5
19	100	9.0	0.4
20	100	10.0	0.4
21	100	10.0	0.3
22	100	5.0	0.5
23	100	6.0	0.3
24	100	4.0	0.6
25	100	7.0	1.1
26	100	7.0	0.2
27	100	7.0	0.7
28	100	9.0	0.6
29	100	8.0	0.5
30	100	7.0	0.5
31	100	6.0	0.7

SEPTEMBER 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	4.0	0.9
2	100	8.0	0.7
3	100	5.0	1.1
4	100	12.0	0.5
5	100	10.0	0.6
6	100	14.0	0.4

OCTOBER 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	11.0	0.9
2	100	10.0	0.6
3	100	10.0	0.5
4	100	14.0	0.6
5	100	14.0	0.5
6	100	14.0	0.5

(Continued)

(Sheet 15 of 22)

Table E1. (Continued)

7	100	14.0	0.4	7	100	14.0	0.5
8	100	11.0	0.3	8	100	12.0	0.9
9	100	6.0	0.7	9	100	6.0	0.7
10	100	10.0	0.4	10	100	6.0	1.1
11	100	8.0	0.3	10	1900	7.0	2.0
12	100	14.0	0.2	11	100	9.0	2.0
13	100	14.0	0.3	11	700	9.0	2.1
14	100	4.0	0.5	11	1300	10.0	2.0
15	100	8.0	2.6	12	100	10.0	1.9
15	700	8.0	2.2	12	700	11.0	2.0
15	1300	7.0	2.2	13	100	11.0	1.2
15	1900	9.0	2.0	14	100	11.0	1.1
16	100	11.0	1.7	15	100	11.0	0.7
17	100	7.0	1.1	16	100	9.0	0.6
18	100	10.0	0.7	17	100	11.0	0.8
19	100	11.0	0.6	18	100	10.0	0.6
20	100	10.0	0.4	19	100	9.0	0.5
21	100	9.0	0.5	20	100	5.0	1.2
22	100	4.0	0.9	20	1300	6.0	2.0
23	100	6.0	0.8	20	1900	8.0	2.2
24	100	10.0	0.5	21	100	9.0	2.1
25	100	4.0	0.6	21	700	7.0	2.5
26	100	8.0	0.8	21	1300	10.0	2.5
27	100	9.0	1.5	21	1900	8.0	2.3
28	100	10.0	1.1	22	100	8.0	2.1
28	700	10.0	2.1	22	700	10.0	2.1
28	1900	9.0	2.4	23	100	12.0	1.6
29	100	11.0	2.6	24	100	12.0	1.4
29	700	11.0	2.5	25	100	14.0	1.1
29	1300	11.0	3.0	25	1300	6.0	2.0
29	1900	12.0	2.8	25	1900	7.0	2.1
30	100	9.0	2.5	26	100	10.0	1.8
				27	100	12.0	1.2
				28	100	6.0	0.9
				29	100	11.0	0.2
				30	100	6.0	1.5
				31	100	7.0	0.9

NOVEMBER 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	8.0	0.7
2	100	7.0	0.9
3	100	7.0	0.9
4	100	11.0	0.9
5	100	12.0	1.1
6	100	14.0	0.9
7	100	12.0	0.6

DECEMBER 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	7.0	0.3
2	100	14.0	0.5
3	100	3.0	0.4
4	100	6.0	1.4
5	100	8.0	0.5
6	100	8.0	0.9
7	100	12.0	0.7

(Continued)

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Table E1. (Continued)

8	100	12.0	0.5	8	100	5.0	0.5
9	100	14.0	0.6	9	100	14.0	0.4
10	100	9.0	1.2	10	100	12.0	0.3
11	100	9.0	0.9	11	100	11.0	0.5
12	100	9.0	0.4	12	100	7.0	1.8
13	100	6.0	1.0	12	700	11.0	2.1
14	100	6.0	0.6	12	1300	9.0	2.9
15	100	5.0	0.4	12	1900	10.0	2.3
16	100	11.0	1.1	13	100	11.0	2.0
17	100	9.0	0.3	13	700	9.0	2.0
18	100	4.0	0.5	14	700	11.0	1.0
19	100	12.0	0.3	15	100	9.0	0.7
20	100	11.0	0.2	16	700	10.0	0.5
21	100	8.0	0.8	17	100	10.0	0.5
22	100	9.0	0.5	18	100	17.0	0.9
23	100	12.0	0.3	19	100	6.0	1.7
24	100	12.0	0.3	19	700	6.0	2.0
25	100	7.0	0.7	19	1300	7.0	2.6
26	100	10.0	0.4	20	100	9.0	2.0
27	100	10.0	0.2	21	100	7.0	1.7
28	100	12.0	0.3	21	1300	6.0	2.2
29	100	5.0	0.6	22	100	7.0	1.8
30	100	7.0	0.3	22	1300	10.0	2.1
				23	100	10.0	1.0
				24	100	5.0	1.2
				25	100	7.0	1.6
				26	100	5.0	0.8
				27	100	9.0	0.3
				28	100	14.0	0.1
				29	100	9.0	0.5
				30	100	8.0	1.4
				31	100	7.0	1.7

JANUARY 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	10.0	2.1
1	700	11.0	2.0
1	1300	11.0	2.3
2	100	7.0	1.9
3	100	11.0	1.2
4	100	12.0	1.1
5	100	11.0	0.7
6	100	5.0	0.5
7	100	9.0	0.4
8	100	5.0	0.9
9	100	10.0	0.3

FEBRUARY 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	6.0	0.9
2	100	11.0	0.6
3	100	11.0	0.5
4	100	7.0	1.0
5	100	8.0	0.8
6	100	9.0	0.6
7	100	6.0	1.1
8	100	6.0	1.0
9	100	8.0	0.6
10	100	10.0	0.3
11	100	10.0	0.4

(Continued)

(Sheet 17 of 22)

Table E1. (Continued)

10	100	5.0	0.6	12	100	11.0	0.5
11	100	8.0	1.5	13	100	6.0	0.4
11	700	7.0	2.3	14	100	8.0	1.4
11	1300	9.0	2.5	14	1300	10.0	2.0
11	1900	10.0	2.7	14	1900	11.0	2.0
12	100	7.0	2.6	15	100	10.0	2.5
12	700	9.0	2.7	16	100	10.0	1.4
12	1300	9.0	2.4	17	100	9.0	0.8
12	1900	6.0	2.6	18	100	10.0	0.9
13	100	11.0	2.1	19	100	10.0	0.7
13	700	9.0	2.1	20	100	8.0	0.5
13	1900	12.0	2.1	21	100	10.0	0.5
14	100	12.0	2.1	22	100	11.0	0.7
14	700	11.0	2.0	23	700	3.0	0.8
15	100	12.0	2.0	23	1300	7.0	2.0
16	100	10.0	1.4	24	100	11.0	0.9
17	100	11.0	0.9	25	100	11.0	0.4
18	100	9.0	0.8	26	100	7.0	0.5
19	100	9.0	1.5	27	100	5.0	0.6
20	100	7.0	1.1	28	100	9.0	2.3
21	100	10.0	0.7	29	100	10.0	0.6
22	100	6.0	1.1				
23	100	4.0	0.8				
24	100	10.0	0.7				
25	100	9.0	1.1				
26	100	11.0	0.6				
27	100	11.0	0.6				
28	100	10.0	0.8				
29	100	6.0	1.2				
30	100	9.0	0.6				
31	100	9.0	0.4				

MARCH 1984

DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	4.0	0.7
2	100	12.0	0.3
3	100	10.0	0.2
4	100	6.0	0.6
5	100	14.0	0.7
6	100	7.0	0.7
7	100	6.0	1.4
8	100	12.0	0.8
9	100	7.0	0.5
10	100	10.0	1.2
12	1300	6.0	1.4
13	700	7.0	1.4
13	1900	10.0	2.0

APRIL 1984

DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	11.0	1.2
2	100	12.0	0.8
3	100	11.0	0.6
4	100	10.0	0.9
5	100	11.0	1.5
5	1300	12.0	2.0
6	100	12.0	1.0
7	100	9.0	0.7
8	100	11.0	0.7
9	100	11.0	0.7
10	100	6.0	1.4
11	100	9.0	1.1
12	100	7.0	1.0

(Continued)

(Sheet 18 of 22)

Table E1. (Continued)

14	100	10.0	1.6	13	100	11.0	0.8
15	100	10.0	0.8	14	100	9.0	0.8
16	100	12.0	0.8	15	100	8.0	0.8
17	100	12.0	1.1	16	100	12.0	1.2
18	100	7.0	1.8	17	100	9.0	0.8
19	100	12.0	1.5	18	100	11.0	0.5
20	100	14.0	1.1	19	100	11.0	0.5
21	100	10.0	1.0	20	100	9.0	0.4
22	100	11.0	0.7	21	100	10.0	0.4
23	100	11.0	0.5	22	100	10.0	0.3
24	100	11.0	0.3	23	100	11.0	1.2
25	100	6.0	0.5	24	100	12.0	1.0
26	100	7.0	0.6	25	100	11.0	0.5
27	100	10.0	1.4	26	100	12.0	0.3
28	100	9.0	0.8	27	100	11.0	0.4
29	100	10.0	1.2	28	100	10.0	1.0
30	100	8.0	1.4	29	100	11.0	1.3
31	100	12.0	1.1	30	100	11.0	1.2

MAY 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	700	11.0	0.7
2	700	10.0	0.5
3	100	9.0	0.4
4	100	7.0	0.8
5	100	11.0	0.8
6	100	8.0	0.4
7	100	7.0	0.4
8	100	7.0	0.5
9	100	4.0	0.7
10	100	7.0	0.4
11	100	6.0	0.4
12	100	8.0	0.3
13	100	9.0	0.4
14	100	8.0	0.4
15	100	6.0	1.5
16	100	3.0	0.7
17	100	6.0	0.6
18	100	8.0	1.1
19	100	12.0	1.9
20	1300	11.0	0.4
21	100	9.0	0.3
22	100	10.0	0.3
23	700	10.0	0.4

JUNE 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	10.0	1.0
2	100	6.0	0.7
3	100	7.0	0.6
4	100	11.0	0.5
5	100	11.0	0.6
6	100	10.0	0.5
7	100	10.0	0.4
8	100	10.0	0.3
9	700	9.0	0.3
10	100	9.0	0.3
11	100	7.0	0.3
12	100	8.0	0.3
13	100	10.0	0.4
14	100	10.0	0.3
15	100	9.0	0.3
16	100	6.0	0.6
17	100	5.0	0.8
18	100	7.0	0.4
19	100	9.0	0.4
20	100	9.0	0.6
21	100	9.0	0.6
22	100	7.0	0.7
23	100	5.0	0.9

(Continued)

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Table E1. (Continued)

24	100	5.0	0.7	24	100	4.0	0.8
25	100	7.0	0.6	25	100	7.0	0.9
26	100	6.0	0.6	26	100	10.0	0.8
27	100	7.0	0.6	27	100	9.0	0.7
28	100	9.0	0.5	28	100	9.0	0.7
29	100	6.0	0.7	29	100	11.0	0.5
30	100	8.0	1.0	30	100	7.0	0.6
31	100	6.0	1.8				
31	700	6.0	2.1				

JULY 1984

DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	9.0	0.6
2	100	8.0	0.5
3	100	9.0	0.5
4	100	8.0	0.4
5	100	9.0	0.5
6	100	6.0	0.6
7	100	7.0	0.9
8	100	8.0	0.7
9	100	8.0	0.8
10	100	7.0	0.6
11	100	10.0	0.4
12	100	9.0	0.4
13	100	9.0	0.3
14	100	12.0	0.3
15	100	7.0	0.3
16	100	9.0	0.4
17	100	10.0	0.4
18	100	9.0	0.5
19	100	8.0	0.5
20	100	17.0	0.5
21	100	17.0	0.5
22	100	14.0	0.6
23	100	7.0	0.7
24	100	12.0	0.5
25	100	14.0	0.3
26	100	14.0	0.3
27	100	14.0	0.4
28	100	9.0	0.4
29	100	4.0	0.8
30	100	5.0	0.8
31	100	6.0	0.6

AUGUST 1984

DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	8.0	0.5
2	100	10.0	0.5
3	100	10.0	0.3
4	100	8.0	0.3
5	100	14.0	0.3
6	100	9.0	0.3
7	100	9.0	0.3
8	100	9.0	0.3
9	100	9.0	0.3
10	100	7.0	0.3
11	100	5.0	0.4
12	100	8.0	0.4
13	100	8.0	0.5
14	1300	5.0	0.5
15	100	7.0	0.4
16	100	7.0	0.5
17	100	8.0	0.4
18	100	10.0	0.4
19	100	9.0	0.5
20	100	10.0	0.3
21	100	6.0	1.0
22	100	6.0	0.6
23	100	5.0	0.6
24	100	6.0	0.4
25	100	6.0	0.6
26	100	6.0	1.3
27	100	8.0	1.0
28	100	10.0	0.6
29	700	8.0	0.5
30	100	9.0	0.4
31	700	10.0	0.3

(Continued)

(Sheet 20 of 22)

Table E1. (Continued)

SEPTEMBER 1984				OCTOBER 1984			
DAY	TIME	PERIOD (S)	HEIGHT (M)	DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	8.0	0.3	1	100	10.0	1.7
2	100	17.0	0.4	2	100	10.0	1.3
3	700	17.0	0.3	3	100	9.0	0.9
4	100	14.0	0.4	4	100	11.0	0.4
5	100	5.0	0.8	5	100	11.0	0.4
6	100	6.0	0.9	6	100	10.0	0.5
7	100	6.0	1.2	7	100	6.0	1.5
8	100	9.0	1.0	8	100	5.0	0.9
9	100	6.0	1.4	9	100	9.0	0.7
10	100	7.0	1.2	10	100	10.0	0.9
11	100	8.0	1.1	11	100	12.0	1.6
12	100	7.0	0.8	11	1300	9.0	2.0
13	100	5.0	1.0	11	1900	9.0	2.2
14	100	6.0	0.8	12	100	10.0	2.3
15	100	7.0	1.3	12	700	9.0	2.3
16	100	6.0	1.6	12	1300	11.0	2.5
17	100	7.0	1.9	12	1900	12.0	2.7
18	100	8.0	1.7	13	100	12.0	2.9
19	100	10.0	1.3	13	700	12.0	3.2
20	700	9.0	1.0	13	1300	12.0	3.3
21	100	11.0	0.8	13	1900	14.0	3.3
22	100	9.0	0.7	14	100	14.0	3.2
23	100	9.0	0.8	14	700	14.0	3.0
24	100	12.0	0.6	14	1300	12.0	2.8
25	100	11.0	0.6	14	1900	12.0	2.5
26	100	10.0	0.5	15	100	12.0	2.7
27	100	6.0	1.9	15	700	12.0	2.1
27	700	7.0	2.0	15	1300	12.0	2.1
28	100	9.0	1.4	16	100	12.0	1.6
29	100	10.0	1.3	17	100	12.0	1.6
29	1900	7.0	2.5	17	1900	14.0	2.0
30	100	9.0	2.7	18	100	17.0	1.5
30	700	10.0	2.5	18	1300	14.0	2.1
30	1300	11.0	2.5	19	100	17.0	1.7
30	1900	10.0	2.2	20	100	14.0	1.1
				21	100	11.0	0.8
				22	100	10.0	0.4
				23	100	11.0	0.4
				24	100	9.0	0.4
				25	100	7.0	0.5
				26	100	11.0	0.9
				27	100	11.0	0.8
				28	100	10.0	0.6
				29	100	10.0	0.5
				30	100	10.0	0.6
				31	100	9.0	0.9

(Continued)

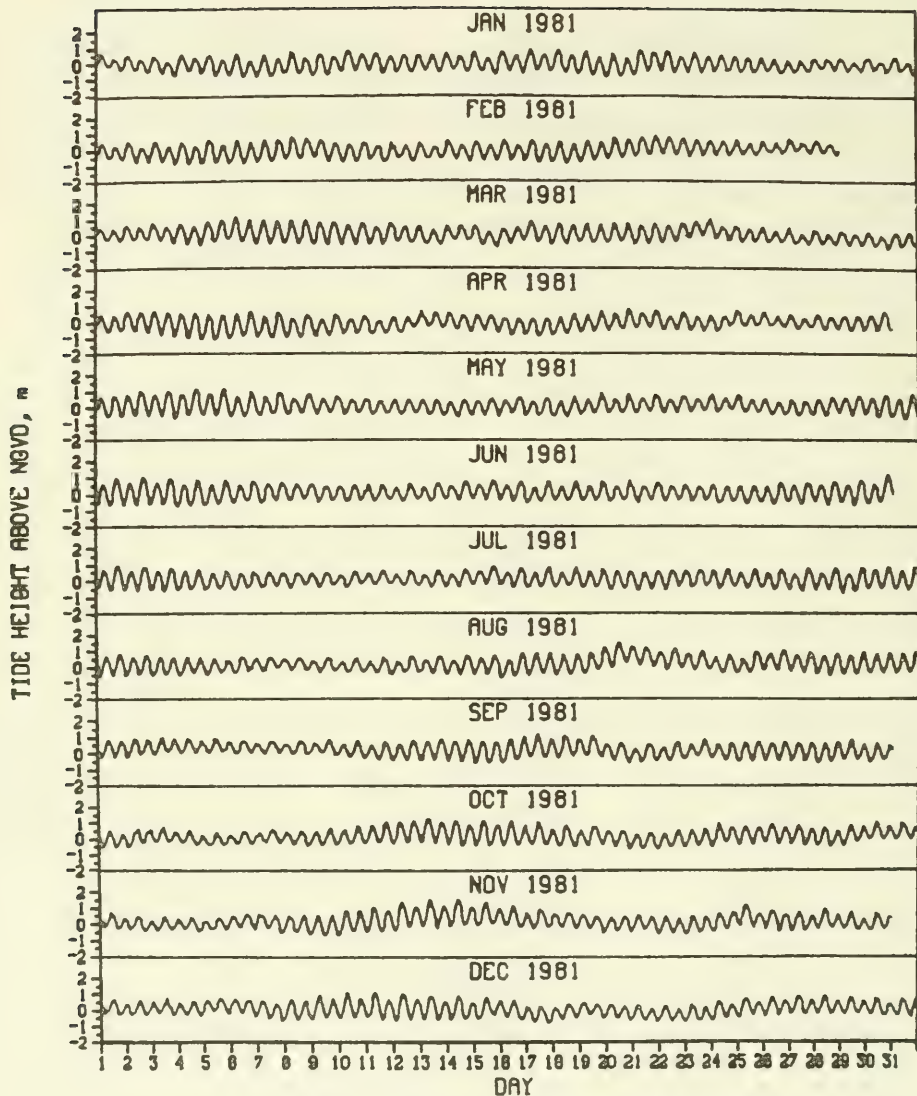
(Sheet 21 of 22)

Table E1. (Concluded)

NOVEMBER 1984				DECEMBER 1984			
DAY	TIME	PERIOD (S)	HEIGHT (M)	DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	4.0	1.3	1	100	11.0	0.5
2	100	7.0	1.1	2	100	10.0	0.3
3	100	6.0	2.2	3	100	5.0	0.8
3	700	7.0	2.1	4	100	7.0	0.4
3	1300	7.0	2.1	5	1300	6.0	1.5
4	100	8.0	1.8	6	100	9.0	2.2
5	100	10.0	1.5	7	100	6.0	1.0
6	700	10.0	1.0	8	100	5.0	0.6
7	100	6.0	1.5	9	100	6.0	0.3
8	100	6.0	1.2	10	100	10.0	0.3
9	100	10.0	1.4	11	100	9.0	0.5
10	100	10.0	0.9	12	100	5.0	0.8
11	100	10.0	1.0	13	100	9.0	0.5
12	1300	12.0	1.2	14	100	10.9	0.7
13	100	12.0	0.9	15	100	12.3	1.2
14	100	14.0	1.5	16	100	9.7	1.0
15	100	7.0	0.8	17	100	9.8	0.9
16	100	11.0	0.4	18	100	10.9	0.9
17	100	5.0	1.1	19	100	9.8	0.6
18	100	5.0	0.5	20	100	12.3	0.9
19	100	5.0	0.4	21	100	12.3	0.8
20	100	6.0	1.7	22	100	10.9	0.7
20	700	6.0	2.1	23	100	9.8	0.4
21	100	7.0	1.8	24	100	4.5	0.8
22	100	4.0	1.2	25	100	9.8	0.6
23	100	6.0	1.5	26	100	6.9	1.6
24	100	4.0	1.2	27	100	8.8	0.9
25	100	6.0	0.8	28	100	8.8	0.5
26	100	8.0	0.6	29	100	10.9	0.4
27	100	8.0	0.6	30	100	9.8	0.4
28	100	9.0	0.6	31	100	6.4	1.1
29	100	8.0	0.8				
30	100	11.0	0.7				

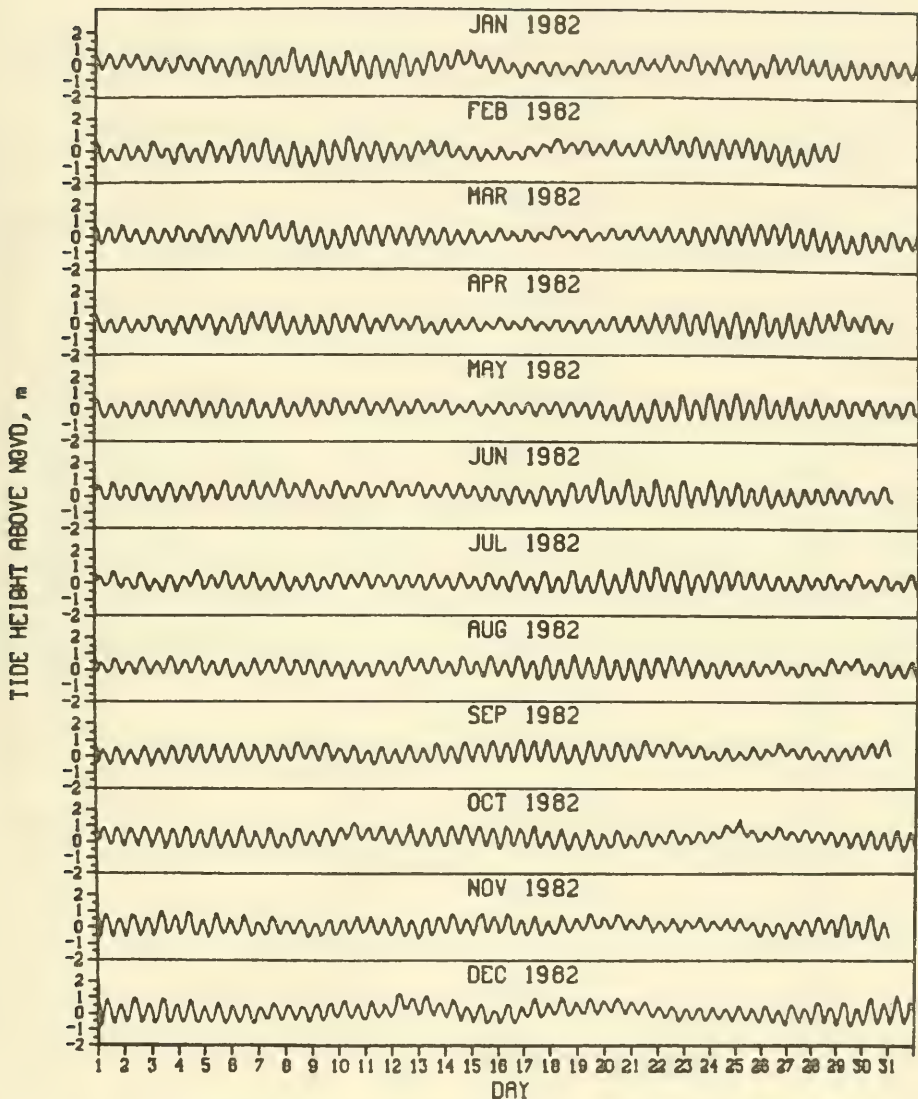
APPENDIX F: TIDE LEVELS AT PIER END, 1981-1984

This appendix contains plots of the observed tide levels at the end of the FRF pier. The data are collected by the National Oceanic and Atmospheric Administration/National Ocean Service (NOS) as part of their nationwide tide gaging program. Missing data have been interpolated by NOS. The tide gage, being located near the end of the pier, is occasionally within the surf zone. Thus, the tide data are influenced by setup, setdown, and storm surges, depending on the conditions at the time of the measurement.



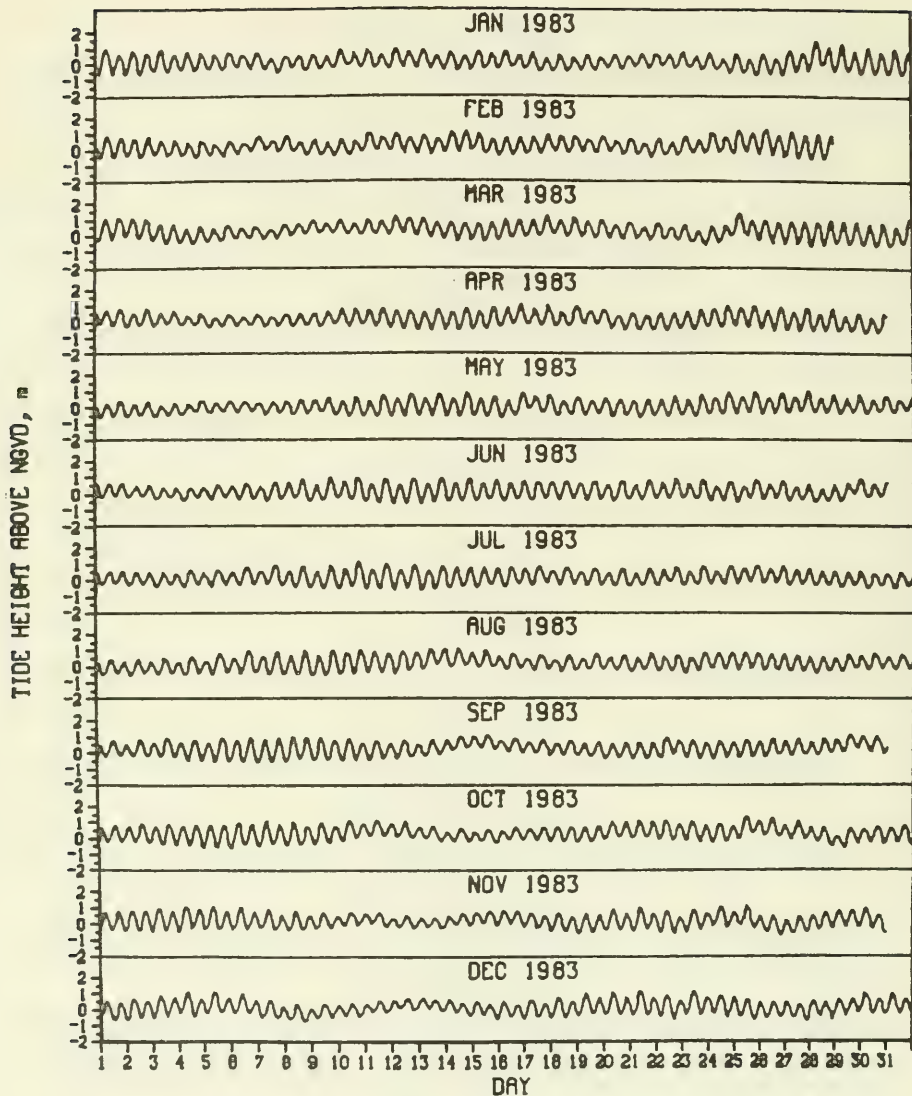
OBSERVED TIDE HEIGHTS AT FRF PIER END

Figure F1. Tide level record, 1981



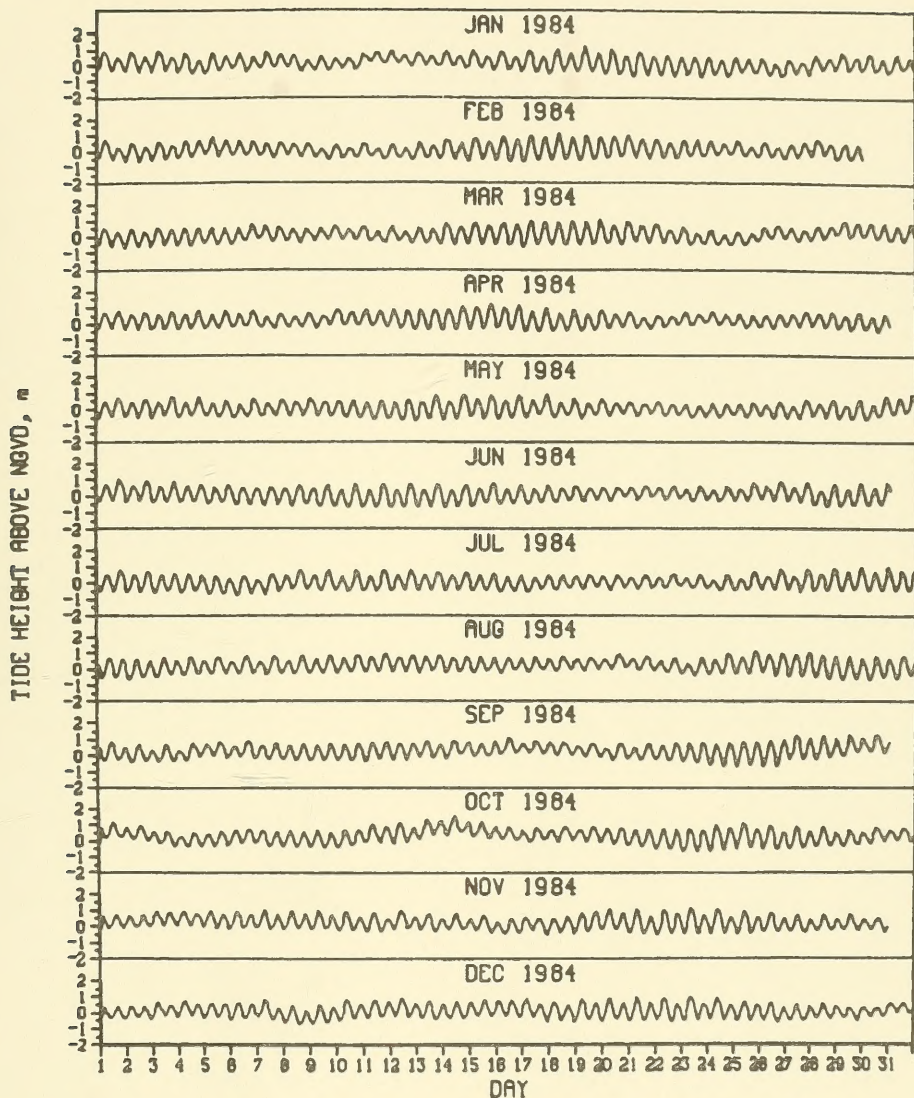
OBSERVED TIDE HEIGHTS AT FRF PIER END

Figure F2. Tide level record, 1982



OBSERVED TIDE HEIGHTS AT FRF PIER END

Figure F3. Tide level record, 1983



OBSERVED TIDE HEIGHTS AT FRF PIER END

Figure F4. Tide level record, 1984

